



30307CNT1.ST25
SEQUENCE LISTING

<110> JOAN, KNOLL H
ROGAN, PETER K

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<141> 2004-02-24

<150> 09/573,080

<151> 2000-05-16

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aatacctatc ctgcgttgaa aataaaacat tttcaaacat gaaatrtggt gcattacaga 1980
ttagcatttn aacagatgaa catttgcaat crattttgat gatagggaac actaactttg 2040
aaccccaatt aagcaaaatg ttatcccwaa aaagaattcc attcttctca ttagtagacc 2100
tgtattacaa aaaattgtac tcaattatta ttwtattat attttgaatt tcatcaataa 2160
aaattgtgga attttttctc ttgttatata agtacctaca taatatcctt gattttgcct 2220
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ccctg 2285

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<223> n is a, c, g or t

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<309> 1996-01-26

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agtggatgaw aagttaata tgagccagca gtgtgctgtt gctgccaaaa aagccaacag 180
tatcctgggc tgcattaana agaggattga cagcagatca mgggaagtga ttatacccct 240
ttacaatgcc ttggtgaggc cacatttga atactgcac cagttttggt caccccaatr 300

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30307CNT1.ST25

caaaaaggat gttgagactt tagagagagt acagagaaga gcaacaaaga tgatcagagg 360
gctggaggac ctaacctatr aggaaaggyt gatggaattg ggcttgttta gtttgragaa 420
gagaaggatg aggggagaca tgatagcagc ctt 453

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ggaatggaat ggaat 75

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<223> n is a, c, g or t

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<223> golem

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<307> 1992-10

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atyactcakt	actcacgcgt	ttgtggcgat	gctgggtgta	acaaacctac	tgcgctgcca	180
gttgataaa	agtatagcac	atacaattat	gtacagtaca	taatacttga	tagtgataat	240
aaatgactat	gttactgggt	tatgtattta	ctatactata	ctttttatta	ttattttaga	300
gtrtactcct	tctacttatt	aaaaaaaaa	gttaactgta	aaacagtatg	ccgtgttaga	360
ccggcagcag	ccacatgcat	ctcgtgttta	ccgcgtctct	tgattgcatc	attttctctt	420
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gctaagtgtg	ccagtaagag	gccacgtcga	gtaattgagc	tggaacaaa	attaaaagtg	540
attaaggacc	gccgaagggtg	gaaaatcagt	gatgggttatt	gctcgccaga	caggatatgtc	600
ccattcgacc	atagctgcca	ccttgaagaa	caagagcaaa	gtgacagaaa	ctgttaaagg	660
gtctgcttca	tcgaaggcga	cgagaccaac	aaatttgaga	agtgccaaca	tcagatatgg	720
agaatatctg	ctaattgacct	ggattgaaaa	ccagacacag	aaacatagct	ctctcagcac	780
cacgacgacc	acggccagag	caaaagggat	atttttgatg	ttgaaagaaa	aggctggacc	840
cgactgtgat	atcgaattta	ctgctagtct	cgggtgggtt	aatgattcg	agaatcgtta	900
tccattacat	aatgttaacg	tgactgctga	gtctgtgagg	gctgacgtga	aggcagctga	960
agagtttttg	gaaactctag	atgagtcgtg	gagaagaaat	acttgccaga	gcaaactctt	1020
aatatggagg	aaacctccct	attctggaaa	cagatgcctg	aaaggacttt	ctgtcataag	1080
ggggccaagt	caatgccagg	tttcaagggt	tttaaggaca	ggaaacgggtc	ttgctttggg	1140
gcaatgttgc	aggctacaaa	ttgaagccct	ttgtgatccg	acacagtga	aaccccaggg	1200
ccttcaagca	tatcagtaag	cacacgtcgc	cagtgtacta	caggagcaat	aaaaagtc	1260
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cacatcttcc	ttttactggg	gatcttcatc	ccaatttcaa	agtgggtgtt	ctctctccaa	1440
acaccacctc	tttgatccaa	tggaatcaagg	aattatagca	gctttttaaa	ggcctactac	1500
cagagaaggg	ccttcgcccc	ggttatcact	gtaactgagg	aagacactga	tgcaattctg	1560
gaaggattac	aacagccaag	actgcatcaa	gaaccttgct	tgggattggg	gtgatgtcac	1620

30307CNT1.ST25

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caaggagtgt atgaatggca tctggaagaa gacactcaag aggtttgtcc atgacttcaa 1680
aggatttgcc aaggatgagg aggttgcaaa aatcaacaag gctgtggttg agatggcaaa 1740
caactttaac ctgggtgtgg atgaggatga cattgaggag ctctagagg tggttcctga 1800
ggaattgact aatgaggagt tgttggaact ggaacaggaa tgcatagctg aagaagaggc 1860
aagagaaaag gaaactgcag gagaagaaga agaaccacca agaaaattca cagtaaaggg 1920
tttagcagaa gcttttgag acctcaacaa gctccttaaa aagtttgaaa acatggaccc 1980
caacaccgaa aggttttcat taatagagag gaatgttcat ggtgcattat ctgcttaca 2040
gcaaattctat gatgacaaaa agaaacaaac caagcaaacc atcatggaca tatatttctg 2100
aaaagagtga cacctcctca agaagagcct caggcaggtc cttcaggaga tattccagaa 2160
gaargcatcg ttatcatagg agatgacagc tccatgcatg ttattgcccc tgaagacctt 2220
ccagtgggac aaaatgtgga ggcggaagac agtgatattr atgacctga ccctgtgtag 2280
gcctaggcta atgtgtgtgt ttgtgtctta gtttttaaca aaaatntttt aaaaaataaa 2340
aaaatwaaaa atttwwaaat agaaaaaagc ttatagaata aggatataaa gaaagaaaat 2400
atttttgtac agctgtacaa tgtgtttgtg ttttaagcta agtgttatta caaaagagtc 2460
aaaagttaaa aatgcaaaag ttataaaagt aaaaaagtta cagtaagcta tggttaattt 2520
attgctgaaa aarwwwwwww wwwwwataa awttagtata gcctaagtgt acagtgttta 2580
taaagtctac agtagtgtac agtaatgtcc taggccttca cattcactca ccactcactc 2640
actgactcac ccagagcaac ttccagtcct gcaagctcca ttcattggtta gtgcycata 2700
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tacacaaata cttaccattg tgttacaatt gcctacagta ttcagtacag taacatgctg 2820
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ataccatcta ggtttgtgta agtacactct atgatgttcg cacaacgaaa ttgcctaattg 2940
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30307CNT1.ST25

<305> 4
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 <307> 1992-10
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 <309> 1996-01-26

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 ttaccattgt gttacaattg cctacagtat tcagtacagt aacatgctgt acagggtttgt 180
 agcctaggag caataggcta taccayatag cctaggtgtg tagtaggcta taccatctag 240
 gtttgtgtaa gtacactcta tgatgttcgc acaacgaaat tgcctaata ga cgcatttctc 300
 agaacgtatc cccgtcgtta agcgacgcat gactg 335

<210> 15
 <211> 1205
 <212> DNA
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 <223> golem_b

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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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atyactcakt actcacgcgt ttgtggcgat gctgggtgtaa acaaacctac tgcgctgccca 180
gttggtataaa agtatagcac atacaattat gtacagtaca taatacttga tagtgataat 240
aaatgactat gttactgggt tatgtattta ctatactata ctttttatta ttattttaga 300
gtrtactcct tctacttatt aaaaaaaaaa gttaactgta aaacagnctc aggcagggtcc 360
ttcaggagat attccagaag aargcatcgt tatcatagga gatgacagct ccatgcatgt 420
tattgcccct gaagaccttc cagtgggaca aaatgtggag gcggaagaca gtgatattra 480
tgatcctgac cctgtgtagg cctaggctaa tgtgtgtgtt tgtgtcctag tttttaacaa 540
aaatntttta aaaaataaaa aaatwaaaaa tttwwaaata gaaaaagct tatagaataa 600
ggatataaag aaagaaaata tttttgtaca gctgtacaat gtgtttgtgt ttttaagctaa 660
gtgtttattac aaaagagtca aaagttaaaa atgcaaaaagt ttataaagta aaaaagttac 720
agtaagctat ggttaattta ttgctgaaaa arwwwwwww wwwwwataaa wttagtatag 780
cctaagtgtg cagtgtttat aaagtctaca gtagtgtaca gtaatgtcct aggccttcac 840
attcactcac cactcactca ctgactcacc cagagcaact tccagtcctg caagctccat 900
tcatggtaag tgcycctatac aggtgtacca ttttttatct tttataccgt atttttactg 960
taccttttct atgttttagat acacaaatac ttaccattgt gttacaattg cctacagtat 1020
tcagtacagt aacatgctgt acagggtttgt agcctaggag caataggcta taccayatag 1080
cctagggtgtg tagtaggcta taccatctag gtttgtgtaa gtacactcta tgatgttcgc 1140
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gactg 1205

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<222> (547)..(547)

<223> n is a, c, g or t

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<302> Prototypic sequences for human repetitive DNA

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actgcaggtc gactctagag gatccccggc ggaaggcccg acaagagaaa cccggggccgc      180
aggtggcggtt ggcggggccga aggtactcag gatgacgtta aggcaggaag aggagagcca      240
cggtgagatc gcagagaatg gtcagagncc tccctagaag gccctctccc attccagaag      300
ccccccagga ctttcccagg cagtgtctgta aagccaccaa gctttggagc caagggtgact      360
gtgtctcttg aggaagggcc cgccacaacc aaaaacgttg cccgcctgat ggcgtgnctg      420
gcctgcaggg actcaggggg atgtggagnc agncagaaag gagaancaac gagactgcag      480
gaaatgctag gancctccca agaaggactt tcttatccca ggagtttcaa gggctgtcct      540
ggtcggnctg taaancccca ggccttgga caggggtgcct gtgtctctca ttgaagnccc      600
caacaagaga aaacggtgct gcagggtggc gtgcgctggc cgcagggact caggaggatg      660
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<212> DNA

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<223> n is a, c, g or t

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<222> (51)..(51)

<223> n is a, c, g or t

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<223> n is a, c, g or t

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<223> n is a, c, g or t

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 <303> Journal of Molecular Evolution
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 gtgcccccca tgggagaaac acacaccctt ggtgaaagcc agggactcca cgacccccctt 180
 gggcccggtc ctggaactgc tggaaaggca ctggtctctg gtagagtaca ccagcctcct 240
 attcggactc gccacttttt tcctccagct gcctcaatgt caccctgaaa tcctggcatc 300

30307CNT1.ST25

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gtgaccacgt ccctcgggga cttcttgtca tgttgggcgg gccgcctgtg gggacagaca 360
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ctgctgggaa ggtactggcc tccagtggaa gacttcagnc ctccatttca gcctcgccgc 480
ttttttcctc aggctgcttc aacgtacccc tgaaagcctg gnacctgtt tcagtcactc 540
gggatactta ttncacttt ggggagctcc cccgtaggag agacatgcac cctgcatgcg 600
tggcctgaga aaaaagtggg gaggacaaag aggagaccag gatgccccac cagaagacag 660
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ggggtgtgtg cctctccac agaaggcacc acaaagcagc aagaagtccc ccagggaaca 780
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aattc 1205

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<213> Homo sapiens

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<223> n is a, c, g or t

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<223> n is a, c, g or t

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<223> n is a, c, g or t

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<223> n is a, c, g or t

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<223> n is a, c, g or t

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<301> Jurka, J; Walichiewicz, J; Milosavljevic, A
<302> Prototypic sequences for human repetitive DNA
<303> Journal of Molecular Evolution
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<307> 1992-10

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<309> 1996-01-26

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<302> Prototypic sequences for human repetitive DNA
<303> Journal of Molecular Evolution
<304> 35
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<306> 286-291
<307> 1992-10
<309>
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<300>
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<309> 1996-01-26

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<302> Prototypic sequences for human repetitive DNA
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<302> Prototypic sequences for human repetitive DNA
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<302> Prototypic sequences for human repetitive DNA
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<303> Journal of Molecular Evolution
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30307CNT1.ST25

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ggtgcacgtt tccaataacc aggtgcacgg atgtataggg tcccccccat ggatagaggt 240
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 tgacgctgtt acgatggagg ccagaacttg gttaatgtgt aacaaggagg cagtaggccc 1080
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tcttgacgt	tagntaccag	cttggccaca	gtggagtaga	gcaccaagcg	ggctcttagg	1140
gtccccgatt	ccaggccttg	gctgttggat	ggcatttctg	gacctgccct	gggccagagg	1200
agagcccact	gccctgaagg	gagagtctca	ggcctggcag	cattcaccgc	aagctgacag	1260
aagagtcctt	gggctttaag	tgaacattkg	cgrtagycag	gcagtacttn	ctgtgggcct	1320
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acagagagag	agacngagtt	tgtttgrggg	aaagtaargg	aagagaacaa	gagtctctgc	1800
ctggtaatcc	agrgaattct	tccagatctt	atccaagacc	acnaaggcag	tacctctacg	1860
agtctgcaag	agccacagta	ttactgggct	tgggggtgccc	cctaatagcag	atacggccgc	1920
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aagaaggacg	ggtacaaaca	agcccagact	gtgaagacta	caataaatac	ctaactcttc	2040
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accaaataga	ctaaataagg	caccagggac	caatcccgga	garacagaga	tatgtgacct	2160
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cagaaaaaca naatattata acantgtaat tatggtgtat aaactactct tragtagaaa 3120
gactaaaaga tgaaccaatc aaaaatanta actanaacaa cttttcaaga catagacagt 3180
acnntaagat anaaatagaa acaacaaaaa gtttaaaaat tggnggacga agttaaaatg 3240
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<223> n is a, c, g or t

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<223> n is a, c, g or t

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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 <307> 1992-10
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 atgagrtga gacanctncg tggancacag aaacgaataa aaaccacatt aaaagggtaa 180
 gaggaaccgt ctcactttaa ccacgttgcc cctmagtcgg cacagtrcca cacngagaga 240
 awttccccgg gcctacagtt tctacagtgg gaaaagagag ctkgaggtgg acatccagct 300
 tccctagcat tccaagatgc ttcccaggar gccactcyn atctcacctc atgaggaaac 360
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 nagctcatag taaccagtgc acggatcttg gtggtagctc tgtattcctg ccagcggtgg 480
 cgcctgatca gaggtaccag ccaatggcat agcccacccg caaagctgag ctggtcgtc 540
 ccagaagcac ggtgagaagt tcnaccggc ttgagtcctt agatggccag cctccaaacc 600
 cagccttaga scctaccca gngctccacc caggcagga gatacacacc acmatgtatt 660

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ctaccagggc	aaagtgccag	ccaccgtcca	ttcstwnacg	caattccatc	taaccttgca	840
gcctaggggc	tggccctgcc	caactgcaga	gctsaaacag	cggctccgcc	tggccasaga	900
gtmtacccccg	tggcycagcc	caatagacgc	gactncaacg	tccantcagc	ggctccgcct	960
aannncagag	cccagccagc	agccccgcct	gacctcagag	cmcaggcant	agcccgacca	1020
gctagagaac	ccaamagcaa	gactgccta	cccatgggta	ttaccagctg	tcccatccag	1080
aatcacaagc	tggactgaat	aatgaaggct	twttcctgnc	gaagaacacc	tgtaaaagcc	1140
agaagaggtg	gctgcctmgt	caaatgcatg	gataccaatg	caaggacgca	aggggttacga	1200
agaatcaaag	aatcatgaca	cctccaaaat	aaactaaca	agctccaaca	atggamccta	1260
aagaaataaa	gatctataaa	atgactggca	aagaattcag	aataatcctc	ttaaagaagt	1320
tcggtgagct	acaagaatac	atagatagaa	aattaaataa	aatttgga	acaatacatg	1380
aamaaaacga	aaagtttgac	aaagaaatag	aaacgawtat	tctaaaaccc	aaatagaaat	1440
cctagagatg	aagaacacaa	ttgctgaaca	aaaaaattca	ataaaaagct	tcgacagcag	1500
actcaatcaa	gcagaagaaa	gaatcagtga	gctcgaagac	agaacatttg	aaattatcca	1560
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gacaccatca	agaaaactaa	catacgcata	atagaaatnc	cagaaggaga	agagaaagaa	1680
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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 <302> Prototypic sequences for human repetitive DNA
 <303> Journal of Molecular Evolution
 <304> 35
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 <307> 1992-10
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 aggaggttgc gaaacccwgg tggagcccaa gaccaaggag gacnatttga gaaggcaggc 180
 ctgtgaccag atggcaggct tgctgatcat ggtcttggct acagaccag aaacaktgct 240
 gtmcccctgt ggactcagct acagcccyaa ttggccttgg tctgccacc mrmamcatmc 300
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cggtcctggc tgtggaycct gaagcggccc atgaccagc tccatcccct ctcagmtgtg 420
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gggantcagc aggagccaca cccacacata tacctggtaw caggtctacc acgtgcagaa 540
ccaactgcag atcctgaagc agccctgtaa ctcagttcca gctctacca accaaggttc 600
tgaatgtagt cctgcctatc caaagattcg gcaagaggca taccatccg tgctactgga 660
ggcaggcttg ccaacctcag tctsactgtg gatcntgaag yagcagccat gtgaccggc 720
tccaaccca ytyaactgcg atcccagtgg maatctcatc agcccaggga tctracagga 780
gaaggctctc ctccaaaac cagtctgtaa wgactgaaag aggtgtttgy tccttcaa 840
gcacggacat caacataagg ctacacagat wataaagaat caggcaaaca trmcaccacc 900
aaaggaaact aawaaagttc cagtaaccaa ccccaaagaa acggagatct awaaattacc 960
tgacaaagaa ttcaaaataa tcattcttaa gaaktcaat gagatgcaag agaacacaga 1020
takacaacta aanaaaatca ggaaaacaat kcatgaacaa aatgagaagt ttaacaaaga 1080
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aataaaaaat tctatagaaa gctttaacag gagac 1175

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<223> n is a, c, g or t

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<302> Prototypic sequences for human repetitive DNA
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 <307> 1992-10
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 caagttccag cacaccgttg gagwaaaaaa tctaagaata gatgcattga agagggttaag 180
 aagaacagtt tcactttacc cacgtcaccc ctcccccaag gtggcatagc tcagtgccaa 240
 gagagwctcc tttggtccgc gatttctccc gcaggggaaa gtgagagcat agtgagtgag 300
 cgtccggctc cccagccat gcgggacgct gcccaggagg cccacttttt tctcacccca 360
 cccagaacac tgaggkgatc ggcattggctg agtggttggg agaggctgaa agcagggaag 420
 agangmtggg gactcacagc agccagggca tggaactcaa cmaaaggcca cagatcctac 480
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 gcagaccccc ccagctggcc cacgggagcc cccaacgctc tgtatgcctc acccctggct 600
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 agatagacaa ctcaacaaaa tcaggaaaac aatacatgaa caaatgaga agttcgacaa 1260
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 atgaaaaaga gtgaagaaag cctgtgggat ttatgggaca ccatcaagag aaccaatata 1500
 cgcatcatgg aaatcccaga aggagaagag agagagaaaag gggcagaaag cttattttaa 1560

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<223> n is a, c, g or t

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 gaggtcctg caccctgggc gagcgcgaaa ccagaccac atcaaagccg gtagggagat 180
 tcaggacacc ctctcatcga agtccctccc cccggcwcag cgcmgtgcga tcggaaggaa 240
 aaaaccccc actcccggct tctcccaggg gagggaaaaga gttggttcgc acgtcaagtg 300
 ccccracttt tccgaggggc taccagagg actgtcttct gtcttgccwg tctcrgagct 360
 ctgataggcc cggcataatc tagacaccg ggggagaaca gagatggtgg tttgggctgg 420
 tagatgccat agctnctcac ccctgctcag cacagaacaa gnagatgaaa acccccagnt 480
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 catccaacaa tccagctttc tgggagtgcc taaggaaccg attgcatttc aacttgtcgc 600
 gctacgctga tangattnan cataccctan atgctcggcg actgcaaaga acaaaaanca 660
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 aggtcttctc ctgcataagg ccagtctgtg aagactgaga gaggtggctg ctttgtataa 780
 tgcgcagaca ccaatacaga gagtcaagga aaataaagaa tcagggaan atgttccaaa 840
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 ctgacgaaga attcaaaaca attgttntaa agatgctcat gaataacatg ataaagatgc 960
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 atgttaaaaa gtaccaaaca aaaatcatgg agctgaagaa tacaataact gaactgaaaa 1080

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gtgaagaaag cctaagggat ttatgggaca ccatcaagng aaccaanata cacatcatgg 1260
aagtcccgga aggagaagag agaganaaag gnccagaaag cntattcgaa gaaatagtga 1320
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<223> n is a, c, g or t

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<223> n is a, c, g or t

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<302> Prototypic sequences for human repetitive DNA
<303> Journal of Molecular Evolution
<304> 35
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<306> 286-291
<307> 1992-10
<309>
<313> (1)..(600)

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<400> 67
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gatagggcag ataaacaata gacctccagg agcctgaaca ggagggttggc acttcccatg 120
ccttctcccc agctcactcc agtgataaat ccagggtctac agattctccc tggaaggagt 180
ttgtccacac atcaagcgcc ccaactttta tagcttccac ccaagggact ggctcctaaa 240
tcacctagct ctgggagttg atggggcttt gcatttatga gtctccctag accacagaga 300
acaaagaggt ggttttaaaa caggcacact tccagcagct atctccccag gatcagaggg 360
tgcagcctga acatgagtac aggnattttgc cacagatcct ctccctggct tagtgagag 420

30307CNT1.ST25

agagtgggag ataaacaccc atgctcagct tcaccstgaa gatagaagaa actggaacat	480
acatccaaca ccctaacctt tccagctaca tctagagagt ctggtttcta ccttacctgt	540
ctyagagtac tracaggata tggcacatcc taatctccag ggggccacca aaaacanaga	600

<210> 68
 <211> 750
 <212> DNA
 <213> Homo sapiens

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 <222> (1)..(750)
 <223> 11m3e_5

<220>
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 <223> n is a, c, g or t

<220>
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 <222> (192)..(192)
 <223> n is a, c, g or t

<220>
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 <222> (198)..(198)
 <223> n is a, c, g or t

<220>
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 <222> (235)..(235)
 <223> n is a, c, g or t

<220>
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 <222> (240)..(240)
 <223> n is a, c, g or t

<220>
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 <222> (255)..(255)
 <223> n is a, c, g or t

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 <222> (527)..(527)
 <223> n is a, c, g or t

<220>
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<222> (617)..(617)
 <223> n is a, c, g or t

<220>
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 <222> (680)..(680)
 <223> n is a, c, g or t

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 <304> 35
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 gaggatgaga cagttcctga ggccacagag aagtaaaaaa ctctgagcag ayagtaagag 180
 aattagactt cnatatcnac ratgccccctc cccaatctg cccagcacca catanaaaan 240
 ttctcccaga ctcanagttt ctacaytgga aaaagtgaga ttraggtgga caaccagctt 300
 ccccaccatc ttgggttcct tggcaggaga cctgtccctg cctcaacca trggaagcat 360
 caygagtgcc tgaagggaga aatatycctg aggacagcca gagacaaagg gaggaggtag 420
 gactaccatc cccagccctg gaaactcggg gggctgctct gtaacttggm caaaggagac 480
 accaaatcag agtggctgtt cagcagcacc atgctgtagg aggttcnttc cacagggtccc 540
 ctggrcatga acccctagcc agccttccca cactgccagg atatcccctt tgggacctcc 600
 cccaatccgg gatgggnagc actctgagag ccaaggcaaa cctrggctta aggtgccatc 660
 tagtgcygaa aggaggcagn gacctagyga aaagaaattc aacaggtaaa ttacaaagaa 720
 tctctaagca aacaaaacaa accagmcaga 750

<210> 69
 <211> 1165
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(1165)
 <223> 11m5_5

<220>
<221> misc_feature
<222> (94)..(95)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (237)..(237)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (336)..(336)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (479)..(479)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (544)..(544)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (593)..(593)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (597)..(598)
<223> n is a, c, g or t

<220>
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<222> (791)..(791)
<223> n is a, c, g or t

<220>
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<222> (793)..(794)
<223> n is a, c, g or t

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<222> (796)..(796)
<223> n is a, c, g or t

<220>
<221> misc_feature

<222> (1026)..(1026)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (1031)..(1032)
 <223> n is a, c, g or t

<220>
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 <222> (1034)..(1034)
 <223> n is a, c, g or t

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 <307> 1992-10
 <309>
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<300>
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 <309> 1996-01-26

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 acaaccataa ctggtgaaaa ttatttttaa aaanncaacc atttaaagtc tctggaaatt 120
 gtcctaaggg catacagcaa atgaaacatt tattcaagaa aatctactaa atcttagtaa 180
 gaacagttag agtctgtggt atttgagcca tgactgtctc ctttcttccc ccccccnaasc 240
 cagctcagca wtagataaac tccactccag gtkggtgcag ccaagaacac agggctccct 300
 ctcccctcag ctcccagtca agggctatgg tatctncta ggaggagcag gacatcagca 360
 tttctcatcc ccccagctc catgttgcag aggctaaatt ccagggtgagt gtagctgaga 420
 ggtcgggggc tcccttctc caccagccc ccaactcatag gatggacttg gctctaccng 480
 ccagggtatgg caggctgaga atactggggc cctaattacc cttaccccag ctcgctcata 540
 gggagagagt tccatgccag gagaggcaag ccaagaagac cagaggctac trncccncc 600
 cagcaccag agcagtggct cagagatttt gccaggggg agaggcaggc cataagaaca 660
 gagagctcca aagctctccc caaaggaact gactttattt gcaacagagt gtgaggaagt 720
 tcaagcctaa gggcactctc aaaaacaatg gagatttttg tggtagcaa ttaagggagg 780
 ctggtagctc nannanagya acaagctaaa ccataggcca gctagtttac cagagagaac 840
 cagggaaaga gacagctaag aagagccctc ctggggtcag aacaaacctc aaacactgac 900
 ctcaaaaaac taccctgcc traatttaat tggatcagac tgtggagcaa tttatgcccc 960

30307CNT1.ST25

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agggattgtt gaaaaacaat agagcaatca gccagcaatt agtggagcct aacagctggg 1020
tgtgantacm namngaggca gacagcttaa cagagagatc agagaaagag acagtcaaag 1080
agagccctgc taaaaccact gtcatcccag ggtgactgtg cacatgccc aaggctgtgcc 1140
ctctgaggag caacatcaga ggctt 1165

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<210> 70
<211> 2113
<212> DNA
<213> Homo sapiens

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<220>
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<223> 11m6_5

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<220>
<221> misc_feature
<222> (214)..(214)
<223> n is a, c, g or t

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<302> Prototypic sequences for human repetitive DNA
<303> Journal of Molecular Evolution
<304> 35
<305> 4
<306> 286-291
<307> 1992-10
<309>
<313> (1)..(2113)

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<309> 1996-01-26

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tgaacaacta tccacgcacg aaaatacctt cacaagagct aaggaaacca ggtgagagat 120
tacagyacct gggtgtagca cagaaataag aaaagacgca ttgaagaggg taggaaggac 180
agttttacat taccgcgctc acccctcccc caancccagg cagcacagca tggagagaga 240
taccctctgc ttgggggaag gagaggggaag tgagcacagg actttgcctt ggaccccaaa 300
cactaggccc gcccagtaa aaccagtagc taggcaggcc cccatagccc cagactccag 360
gccagtacct acggactgag ccgyaccaga tcccacagcc caggctccag gcctgcctgg 420
tggtactcagt ctccaggcct gcccagcac caggccaacc ccagtgcctc aggtccaga 480
ccggccccag caccaggcca gcccagtag cccaggctc caggctgsc cagcaccag 540
gctggcccc atagccccag gcttcaggcc cccccagca ccaggctggc ccctrcagcc 600

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30307CNT1.ST25

ctagtcatca ggccagcacc tatagaccca gcctccaggc tggcccctgt agacacaggc	660
tccaggccta cccagcrcca ggccagcccc tgtagcccca ggctccaggc ccaccccagg	720
ytccagacca gcccagagcc aggtyggccc acatagcccc aggccttcagg cctgccccag	780
yaccaggtca gcacccctgg cctcagacct tagccaggta ccaggctggc acctgtagac	840
acaggctcca ggcctgcccc gtaccaggcc agtccctgtg gccccaccct ccagggcyag	900
cccctgtggc cccatgtctc agcagaccca ggggttcaggc ctgtcccagt agaccccagc	960
actaggctag tccccataga cccaggctcc aggactgtcc ctgtgtaccc aggtcccagg	1020
gcagccccta tggccccagg acccaggcca gccctcagag acctagcctc taggccagcc	1080
ctgcagaccc agcctccagg ctggcaccca yagacccaag ctccaggcca tccccagggt	1140
tccaggccag cctcagtagc tccaggcacc aggctagcac ccacagaccc aggctccaga	1200
ctagccccac gctaccccag caccaggcca gccccaggct ccaggctgggt ccctgtggcc	1260
caggctccag tggaccagg gtccaggcct gctccagcag acccagggtc caggcccacc	1320
ccagtagacc ctgggtccag gctagcccc atggactcag gctccaggac caccctgca	1380
gaccagggt ccaggccagc cccyatggac caggatccar ggcccatytc cccagttgca	1440
ggctccaggc ctgccccagt gccaggccag cccccatgga ctcaggctcc aggcccatcc	1500
cagtggaccc aggctccagg cccatcccag yaccaggcca gcccctgyag actcaggctc	1560
aaggcccacc ccagcaccag gtcagcccct gtggaccag gcttcaggcc agcccctata	1620
gacacagggt ccaggccyac cctcatggac ccaggctcca ggcccayccc cacagaccca	1680
atcaacagggt ccacccagtg gatccagggt ccaggcycaa ccctgtggac ccaggcacca	1740
ggcctgccac ctgctgaccc aggaccagg ccagcctgcc taaggactcc agcagcaagc	1800
ctgcctatag accataccag atggcctgcc cagaatctct ggatgactgg tgaagggtt	1860
tcccagacaa agccagtctg caaagactgg aataagtccc tacttcttca aatgtgcaga	1920
caccaatgca aggcccaaga atcawgaaca atcagggaac catgacacca ccaaaggaa	1980
aaaataaatt tccagtaact gaccctaaag aaatggagat ctatgaactg cctgacaaag	2040
aattcaaaat aattgtttta aggaagctca gtgaactwca agaaaacaca gatagacaat	2100
taaatgaaat cag	2113

<210> 71
 <211> 587
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> 11m7_5

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<307> 1992-10
<309>
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<309> 1996-01-26

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ctcagtaaag gtaaatacat gggcaattat aaaagctagt attattgtaa cwatggtttg      120
taactccact ttttgttttc tacatgattt aaragactaa tacatTTTTT aaaaattatt      180
agtctaaaag ctagtattat tgtaattttg gtttgtaact ccattttggt ttctacataa      240
tttaaaagac taatacatta aaaataatta ttaatttatg tttttgggca cacaatgtat      300
aaagatgtaa ttttgtgaca tcaataactg aaaggggttg ggayagagct gtaaaggcag      360
agtttttgta tgttattgaa gttaagtttg tataaattca aattagattg ttataacttt      420
aggatgttaa atgtaatccc catggttaacc acaaagaaaa tagctataga atatacacia      480
aaggaaatga gaagggaatt aaaatatttc actacaaaaa aaatcaacta aacacaaaag      540
aagacagtaa tggaggaaat gagggacaaa aaagctataa ggcatat      587

<210> 72
<211> 1069
<212> DNA
<213> Homo sapiens

<220>
<221> repeat_region
<222> (1)..(1069)
<223> l1ma10

<220>
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<222> (984)..(984)
<223> n is a, c, g or t

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<302> Prototypic sequences for human repetitive DNA
<303> Journal of Molecular Evolution
<304> 35
<305> 4
<306> 286-291
<307> 1992-10

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<309>
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<300>
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 aacagatata tgaaaaaatg ctcaacatca ctaatcatca aggaaatgca aattaaaacc 180
 acaatgagat atcacctcac acctgttaga atggctatta tcaaaaagac agaaaataat 240
 aaatgttggy gaggatgtgg agaaaagga actattgtac actgttggtg ggaatgtaaa 300
 ttagtayagc caytatggaa aacagtatgg aggttcctca aaaaaytaa aataraacta 360
 ccatatgaty cagcaatccc actwctgggt atatatcaa argaattgaa atcagtatgt 420
 ygaagagata yctgcactcc catgtttayt gcagcaytat tcacaatagc caagatatgg 480
 aawcaaccta agtgtccatc aayggawgaa tggataaaga aaatgtggta tatatacaca 540
 atggaatact attcagccat aaaaaagaat gaaatcctgt catttgyarc aacatggatg 600
 aacctggagg acattatgct aagtgaata agccaggcac agaaagacaa atactgcatg 660
 attccactta tatgaggtat ctaaaatagt caaactcata gaagcagaga gtagaatggt 720
 gggtgccagg ggctgggggr agggggaaat ggggagttgc tgttcaatgg gtataaagtt 780
 tcagttatgc aagatgaata agttctagag atctgctgta caacattgtg cctatagtta 840
 ataatactgg attgtacact taaaawttgt taaaagrgta gatctcatgt taagtgttct 900
 tatcgcaaa caaaaaaatg gggaactttt ggrrgtgatg gatatgttca ttatcttgat 960
 tgtggtgatg gtwtcacggg tgtntacata tgtcaaaact catcaaattg tacacwttaa 1020
 atatatgcag tttttagtgt ataattatac ctcaacaaag ctgttttaa 1069

<210> 73
 <211> 1055
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> l1ma2

<220>
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 <222> (754)..(754)
 <223> n is a, c, g or t

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<221> misc_feature
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 <223> n is a, c, g or t

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 <303> Journal of Molecular Evolution
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 <306> 286-291
 <307> 1992-10
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 <309> 1996-01-26

<400> 73
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 attaaaaart gggcaaaaga catgaayaga cttttctcaa agaagacat acaaatggcc 120
 aacargyata tgaaaaaatg ctcaacatca ctaatcatca gagaaatgca aatcaaaacy 180
 acaatgagat atcatctcac cccagttara atggctttta ttaaaaagac aaaaaataac 240
 arattgctggy gaggatgtgg agaaaagga actcttayay actgttggtg ggaatgtaaa 300
 ttagtacarc caytatggaa aacagtttgg agrttyctca aaaaactaaa aatagarcta 360
 ccatatratc cagcaatccc actrctgggt atattaycaa agaaaaggaa atcagtatat 420
 yaaaragata cctgcactcc catgtttatt gcagcactat tcacaatagc haagatttgg 480
 aatcaaccta agtgtccatc aacrgatgaa tggataaaga aaatgtggta catatacaca 540
 atggagtact attcagccat aaaaaagaat garatcytgt catttgcagc aacatggatg 600
 gaactggagg tcattatgtt aagtgaata agycargmac araaagacaa acaytgcattg 660
 ttctcactta tttgtgggat ctaaaaatca aaacaattga actcatggag atagagagta 720
 gaaggatggt taccagaggc tgggaagggt agtnggagga ttggggggng gkgrrgaggg 780
 atggttaatt ggtacaaaaa aatagttaga aagaatgaat aagacctagt atttgatagc 840
 acaacaagggt gactatagtc aataataatt taattgtaca ttttaaaata actaaaagag 900
 tataattgga ttgtttgtaa cacaaaggat aaatgcttga ggggatggat accccatttt 960
 ccatgatgtg attattacac attgcgtgcc tgtatcaaaa catctcatgt accccataaa 1020
 tatatacacc tactatgtac ccacaaaaat taaaa 1055

<210> 74
 <211> 1042
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(1042)
 <223> l1ma5

<300>
 <301> Jurka, J; walichiewicz, J; Milosavljevic, A
 <302> Prototypic sequences for human repetitive DNA
 <303> Journal of Molecular Evolution
 <304> 35
 <305> 4
 <306> 286-291
 <307> 1992-10
 <309>
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<300>
 <308> Database of repetitive elements (replibase)
 <309> 1996-01-26

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 aacagatata tgaaaaaatg ctcaacatca ctaatcatca aggaaatgca aattaaaacc 180
 acaatgagat atcacctcac acctgttaga atggctatta tcaaaaagac agaaaataat 240
 aaatgttggy gaggatgtgg agaaaagggg actattgtac actgttggtg ggaatgtaaa 300
 ttagtayagc caytatggaa aacagtatgg aggttcctca aaaaaytaaa aataraacta 360
 ccatatgaty cagcaatccc actwctgggt atatatccaa argaattgaa atcagtatgt 420
 ygaagagata yctgcactcc catgtttayt gcagcaytat tcacaatagc caagatatgg 480
 aawcaaccta agtgtccatc aayggawgaa tggataaaga aaatgtggta tatatacaca 540
 atggaatact attcagccat aaaaaagaat gaaatcctgt catttgyarc aacatggatg 600
 aacctggagg acattatgct aagtgaata agccaggcac agaaagacaa ataccgcatg 660
 ttctcactca tatgtggaag ctaaaaaagt tgatctcata gaagtagaga gtagaatagt 720
 ggttactaga ggctgggaag ggtagggrra ggggggrata gggagagggt ggttaawggr 780
 tacaaaatta cagttagata ggaggaataa gttctagtgt tctgtagcac cgtaggggtga 840
 ctatagttaa caayaattta ttgtatattt tcaaatagct agaagagagg attttgaatg 900
 ttcccaacac aaagaaatga taaatgtttg aggtgatgga tatgctaatt accctgattt 960
 gatcattaca cawtgtatac atgtatcgaa atatcacact gtaccccata aatatgtaca 1020
 attattatgt gtcaattaaa aa 1042

<210> 75
 <211> 1053
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(1053)
 <223> l1ma9

<220>
 <221> misc_feature
 <222> (903)..(903)
 <223> n is a, c, g or t

<300>
 <301> Jurka, J; walichiewicz, J; Milosavljevic, A
 <302> Prototypic sequences for human repetitive DNA
 <303> Journal of Molecular Evolution
 <304> 35
 <305> 4
 <306> 286-291
 <307> 1992-10
 <309>
 <313> (1)..(1053)

<300>
 <308> Database of repetitive elements (repbase)
 <309> 1996-01-26

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 aacagatata tgaaaaaatg ctcaacatca ctaatcatca aggaaatgca aattaaaacc 180
 acaatgagat atcacctcac acctgttaga atggctatta tcaaaaagac agaaaataat 240
 aaatgttggy gaggatgtgg agaaaagga actattgtac actgttggtg ggaatgtaaa 300
 ttagtayagc caytatggaa aacagtatgg aggttcctca aaaaaytaaa aataraacta 360
 ccatatgaty cagcaatccc actwctgggt atatatccaa argaattgaa atcagtatgt 420
 ygaagagata yctgcactcc catgtttayt gcagcaytat tcacaatagc caagatatgg 480
 aawcaaccta agtgtccatc aayggawgaa tggataaaga aaatgtggta tatatacaca 540
 atggaatact attcagccat aaaaaagaat gaaatcctgt catttgyarc aacatggatg 600
 aacctggagg acattatgct aagtgaata agccaggcac agaaagacaa atactgcatg 660
 atctcactta tatgtggaat ctaaaaaagt caaaytcata gaaacagaga gtagaatggt 720
 ggttaccagg ggctgggggra kgggggaaat gggaagatgt tggtaaagg gtacaaagtt 780
 kcagttatgt argatgaata agttctrvag ayctaatagt cagcatggtg actatagtta 840
 ataatactgt attgtatact tgaaatttgc taagagagta gatytttaagt gttctcacca 900
 canacaaatg gtaactatgt gaggtgatgg atatgttaat tagcttgayt gtggtaatca 960
 tttcacaatg tatacatata tcaaaacatc acgttgtaga ccttaaatat atacaatttt 1020

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1053

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 <223> 11mb3

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 <302> Prototypic sequences for human repetitive DNA
 <303> Journal of Molecular Evolution
 <304> 35
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 <307> 1992-10
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 <309> 1996-01-26

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 acaatgagat atcacctcac acctgttaga atggctatta tcaaaaagac agaaaataat 240
 aaatgttggg gaggatgtgg agaaaagga actattgtac actgttggtg ggaatgtaaa 300
 ttagtayagc caytatggaa aacagtatgg aggttcctca aaaaaytaaa aataraacta 360
 ccatatgaty cagcaatccc actwctgggt atatatccaa argaattgaa atcagtatgt 420
 ygaagagata yctgcactcc catgtttayt gcagcaytat tcacaatagc caagatatgg 480
 aawcaaccta agtgtccatc aayggawgaa tggataaaga aaatgtggta tatatacaca 540
 atggaatact attcagccat aaaaaagaat gaaatcctgt catttgyarc aacatggatg 600
 aacctggagg acattatgct aagtgaata agccaggcac agaaagacaa atactgtatg 660
 attccactta tatgaggtac ctagagtagt caaatcata gagacagaaa gtagaatggt 720
 gggtgccagg ggctgggggg aggggggaat ggggagttak tgtttaatgg gtacagagtt 780
 tcagtttggg aagatgaaaa agttctggag atggatggtg gtgatggtg cacaacaatg 840
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<303> Journal of Molecular Evolution

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 <307> 1992-10
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 <309> 1996-01-26

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 aacggggttg gagcttctca aaagycncat tcccagggaa ttgtcattat ttgacctgtc 360
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 aaaaagctta aaaggaaaag ctggggaatg agatgtccgn aggggctttg aaaagctcca 600
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 gaagtgaaga ctaaggcaga gttgtaaact gcctggctga gtgttgaagg tatgccccaa 780
 cacacacaca gaacccttg gcaaagamtg ggagacttgt tggttcmagg catttaagga 840
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 caaagaacta aaggaaacca tgtntaaaga antaaagaaa aatatragaa cgatgtctca 1260
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 ctgaggaaca aagaaaaaag aatgaagaaa aatgaasaga gcctcagaga cctgtgggac 1500
 accatcaagc gtaccaatat atgcataatg ggaatcccag aaggagaaga gagaaarkgg 1560

30307CNT1.ST25

cagaaagaat atttaaagra atagtggccg aaaatttccc aaatttgatg aaaaacatyw 1620
 ayctwcayat ccaagaagct caataamctc caagtaggat aaactcaaag agatccacat 1680
 ttasatgcat catagtcaaa ctgctgaaaa a 1711

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 acaatgagat accacttcac acccactagg atggctataa ttaaaaagac agacaataac 240
 aagtrttggc gaggatgtgg agaaattrga accctcatalc attgctggtg ggaatgtaaa 300
 atggtgcagc cactttggaa aayagtttgg cagttcctca aaaagttaaa catagaatta 360
 ccatatgacc cagcaattcy actcctaggt atatacccaa gagaawtgaa aacatatgtc 420
 cacacaaaaa cttgtacacg aatgttcata gcagcattat tcataatagc caaaaagtgg 480
 aaacaaccca aatgtccatc aactgatgaa tggataaaca aaatgtggta tatccataca 540
 atggaatatt attcagccat aaaaaggaat gaagtactga tacatgctac aacatggatg 600
 aacctcgaaa acattatgct aagtgaaga agccagacac aaaaggycac atattgtatg 660
 attccattta tatgaaatgt ccagaatagg caaatccata gagacagaaa gtagattagt 720
 ggttgccagg ggctgggggr aaggggaaat ggggagtgac tgctaattggg tacggggttt 780
 ctttttgggg tgatgaaaat gttctaaaat tagatagtgg tgatggttgc acaactytgt 840

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<223> n is a, c, g or t

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<223> n is a, c, g or t

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<309> 1996-01-26

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acaatgagat accactacac acctattaga atggctaaaa tccaaaacac tgacaacacc 240
aaatgttggc gaggatgtgg agcaacagga actctcattc attgctggtg ggaatgcaaa 300
atggtacagc cactttggaa gacagtttgg cagtttctta yaaarctaaa catactctta 360
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30307CNT1.ST25

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atggaatatt attcagcgat aaaaagaaat gaactatcga gacatgaaaa gacatggagg	600
aaccttaaat gcatattgct aagtgaaaga agccagtctg aaaaggctac atactgtatg	660
attccaacta tatgacattc tgaaaaaggn aaaactatgg agacaagtaa aaagatcagw	720
gattnctaga gkgastrgga rrgggagggg agaataggtg gagcncaggg gatttttagg	780
gcagcgaaac tattctgtat gatactataa tgggtggatac atgacattat acatttgtca	840
aaayccatag aactgtacaa yacaaagagt gaaccctaata gtaaactatg gacttttagtt	900
aataataatg tatcaatgtt ggttcatcaa ttgtaacaaa tgtaccacat taatgcaaga	960
tgtaataaat agggtaaact rttgtgtggg ggagggagta tatgggaact ctctgtactt	1020
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 <211> 2487
 <212> DNA
 <213> Homo sapiens

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 <223> 11mc3

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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 <302> Prototypic sequences for human repetitive DNA
 <303> Journal of Molecular Evolution
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 acaatgagat accactacac acctattaga atggctaaaa tcaaaaacac tgacaacacc 240
 aaatgttggc gaggatgtgg agcaacagga actctcattc attgctggtg ggaatgcaaa 300
 atggtacagc cactttggaa gacagtttgg cagtttctta yaaarctaaa catacaatta 360
 ccatatgatc cagcaatcay actcctaggt atttacccaa gtgaattgaa aacwtatgtc 420
 cacacaaaaa cctgcacacg aatgtttata gcagctttat tcataattgc caaaacttgg 480
 aaacaaccaa gatgtccttc aataggtgaa tggataaaca aactgtggta catccataca 540
 atggaatatt attcagcgat aaaaaggaat gaactactga kacatgaaaa gacatggatg 600
 aatctyaaat gcatattgct aagtgaaga agccagtctg aaaaggctac atactgtacg 660
 attccattta tatgacatty tggaaaaggc aaaactatag agacagaaaa cagattagtg 720
 gttkccagrg gttgagagat gggaagtggg gatgrytgca aargtaaagc acargggatt 780
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 ggagttacag ataagcaaag ggaggagrct agaatgaacc ctgtggtatt rgattagaat 1320
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ggctgattct aggactaggg caggaaatat acaagatgag cctggaacat cttgcartgc 1560
cagaaaataa ggaagtgtc aaaaacacaa tgatrggggt atgtcaaagg gacacagrag 1620
ccaactgaaa gagctcccaa tggccaaagc tggaacaatt tgagcaacaa aataaattat 1680
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aagtaaattt acwgtagaga aacctgacaa acactacctt agccaggtaa tcaaagttag 1980
catcaacaat tgtaagtcac gttgatagya tatacccttg atatgatgtg ataagaatgg 2040
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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 cctcccatcc ggccccctgc atggcatggc ntgcctccct ctctaggacc tgtgagtata 360

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ataaannctt taanttacgt ctctctgagt gcaatttctn tggccgtgct ggagtgatcc 420

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<210> 83
 <211> 559
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(559)
 <223> mer89

<220>
 <221> misc_feature
 <222> (177)..(177)
 <223> n is a, c, g or t

<400> 83
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 ccacaacctc tgcagcaacc tgcccaggaa accaatcccc ttatctacaa ttacaacaaa 120
 saaggcagcc tgctgtaagt cagacttgca saaagtcaga ttgctctctc tagtaancag 180
 yccaggaagc caaacaacaa cctctgcaac aattggcccm aaatggccag gacttgatca 240
 ataactgmca gcttccctaa tttttgtccc tgcttccaac ttaggaccaa ccagagaaaag 300
 cyaaatatgc wccccwaacc aatcacatag gatgccctgc ttctagttag cccgcctmca 360
 gcttccccat gccacaacc tccaatcagg gcatacctga agtcttccct tttttccact 420
 ataaagcttt cccactcctc tgcttgctt tgagtctctg ccaaacgcaa gtgatggtgg 480
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 gtcttcattt atttcaca 559

<210> 84
 <211> 510
 <212> DNA
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<220>
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 <222> (1)..(510)
 <223> mer9

<220>
 <221> misc_feature
 <222> (97)..(97)
 <223> n is a, c, g or t

<400> 84
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ggcgttctta aaccatgaac aatagcatga gcaatctgtg ccttaagggc atgttcctgc 240
tgcagataac tagccagacc cacccttca tttcggccca tcccttcttt tcccataagg 300
gatactttta gttaatcgag tatctataga aacaatgcta atgactggct tgctgttaat 360
aaatacatgg gtaatctctg tttggggctc tcagctctga aggctgtgag gccctgattt 420
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taggctgtcc ccagtcgagc tggctctgca 510

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<210> 85
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<212> DNA
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<220>
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<222> (1)..(615)
<223> mer90

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<220>
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<222> (49)..(49)
<223> n is a, c, g or t

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<400> 85
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cataaacaat ttcacagaat atcaacatca gacaaggcca ctctgtgacc atgatggatc 180
gagacaaaaa caagaccact ccgtaatcat gtctgaacac agacaaaaac atgaacattg 240
tccaagccac aaaaatgacc aagcatcccc ctctcccggc taatatgagt gactgctgct 300
tctttacca ttacagcttt agcctcgctc tagtcttccc' tccttctaga taagatttat 360
taagataccc aatcacagaa ttactcccgc ttcctgacag catccaatcc agagcaaagc 420
ttcgcttcct taaaccctcc cccaaatcac ctaacacaag cccaaatcct ataataagtc 480
ctttctaaca tcctcttact gagacgcccc gtggttcccc atggtgtgcg ttctccctcg 540
ctgcarcgag caataaacc aacttgttca accacaggtg tgttcctggg ggtctttggc 600
tgaggggcac tgaca 615

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<210> 86
<211> 196
<212> DNA
<213> Homo sapiens

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<220>
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 <222> (1)..(196)
 <223> mer91a

<220>
 <221> misc_feature
 <222> (187)..(187)
 <223> n is a, c, g or t

<400> 86
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 gcgagtgggg gctgaaatcc agcccgtgct ccgctcgcca agccgtgmt cctggtgtgg 120
 ggctgcgtct acctagagga aggggcgcct ttttctaatt cacacaaagg cgccgtatgg 180
 gctagcncctg gccctg 196

<210> 87
 <211> 184
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(184)
 <223> mer91b

<220>
 <221> misc_feature
 <222> (175)..(175)
 <223> n is a, c, g or t

<400> 87
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 acatcataga catcacagat ttgtataatg acaattttcc aacagatggc agtaaagtgt 120
 cttgaggaag gggcgctttt ttctaattca cacaaaggcg ccgtatgggc tagcncctggc 180
 cctg 184

<210> 88
 <211> 140
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(140)
 <223> mer91c

<400> 88
 cagggtgcc atgtacagtt gtgcaggttg tgcactgcac aactctaggg ggcgccattc 60

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acatcataga tctatgatgt gaatggcgcc ccctagagtt gtgcagtgca caacctgcac 120
aactgtacat ggcagccctg 140

<210> 89
<211> 412
<212> DNA
<213> Homo sapiens

<220>
<221> repeat_region
<222> (1)..(412)
<223> mer92a

<220>
<221> misc_feature
<222> (38)..(38)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (207)..(207)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (218)..(218)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (225)..(225)
<223> n is a, c, g or t

<400> 89
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tcaggcttct ctccttccta caggcccctg aactttgctt gcccctaagc ctgagcaagc 120
actmaaagtc agaacgtgcc ccccttakca gcttgctcctg agaatcggct gaccacagcg 180
ggacacattt cctgtcaaac cccacnatic atgttgnttg ctcgntcccc ctcgcttgcc 240
cactgtcycc tttctactgg ttctgcttay cyctccctat aaaagaaaag cttttttctg 300
tttgattttg agacgcttgc aagttcctga ggtcggagcg ttctccctat tgcaatagtc 360
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<210> 90
<211> 636
<212> DNA
<213> Homo sapiens

<220>

<221> repeat_region
 <222> (1)..(636)
 <223> mer92b

<220>
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 <223> n is a, c, g or t

<220>
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 <222> (144)..(144)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (272)..(272)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (350)..(350)
 <223> n is a, c, g or t

<400> 90
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 cccccatcc ttttgtgttc cgaggaaacgg cttactgcaa agaaccatcc ttccccatat 120
 gacttagata agactcatgg atgnccccct tgtttacctg tgacaaggcc agacacagac 180
 cctccaaatt cccattcttt gcctcataaa tgattagctg aactgtttgt cccactgat 240
 caatckggac aaaatacctg ytaactcgac tngaccaaac tttagttaag cttctctcct 300
 tcctccaggm ccctgaactt tggaccaccc tcagcctgag ccagcatcan aatgtagaac 360
 agccccctct gagaataggc tgrcctcaag gtaaracatt ctctgatcta ctctgatctc 420
 gccacccttt catccactc cccacacct gggtctttct agccttgttt actcctccct 480
 ataaaagaaa agccctttct gcctgaactt tgagatgctt gcagatctta tggtcagagc 540
 gttctcccta ttgcaatagt ccccytcccc ccmittgcaat agtccttttg aataaagtct 600
 ctccttagct aagtcggat ttgtttttat ttgaca 636

<210> 91
 <211> 554
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(554)
 <223> mer92c

<220>
 <221> misc_feature
 <222> (82)..(82)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (141)..(141)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (172)..(174)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (185)..(185)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (190)..(191)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (302)..(302)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (407)..(407)
 <223> n is a, c, g or t

<400> 91
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 ccccccatcc ttttgtgttc cnagaaacgg cttaccgcaa agaactaccc ttccctatat 120
 gacttaaata agactctctg ncccttcttt ctcacgactt ccataagatc annnatgatt 180
 ccttncctgn naagaccaa cacagacctt tccccctttg cctgaaccgc ctgacaaggc 240
 cagacacgga ccctccaact tcctattctt tgtttcataa atgattagct gagattagaa 300
 gngtctgtcc ccctgaaact agctagacac agagataaac atttcctggt cagctaaccg 360
 agacttcccc tgattgcaaa acaaccccc ctgtaaatct cccacntga aacctatcta 420
 ccccttccta taaaagtcca aggcaaac accctgccga gacacttcat agtcttcgga 480
 tcttgatgc tctccctatt gcaatagcct gaataaaatc atctccttam ttgtctagtg 540
 cattttgtct ttca 554

<210> 92
 <211> 397
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(397)
 <223> mer93

<220>
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 <222> (88)..(88)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (98)..(98)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (109)..(109)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (206)..(206)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (213)..(213)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (257)..(257)
 <223> n is a, c, g or t

<400> 92
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 acgtaagcaa accgaaacct aactcagncg tttcttanaa ataactatna agaaaaatg 120
 aaacttaagc tyagccaatc acaarcsgcc aactaacctc tgattacata accagggact 180
 tcccacctgg acagtccaaa traggngact gcncaactgt aaccaatcaa atactttatt 240
 tgctctgctt cctcatncac cytataaaag cctttccttc aagcccctcc ggcggagccc 300
 caaaccaccc gtggtctggg gctgcccgat tcatgaatca ctgtttgctc aaataaactc 360
 tttaaaattt taatgtgcct cagtttatct ttttaaca 397

<210> 93
 <211> 134
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(134)
 <223> mer94

<400> 93
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 tattaataat tacgccagga caacaggyat aaaccaggac tgtcccaggc aaaccgggac 120
 atatggtcac ccta 134

<210> 94
 <211> 431
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(431)
 <223> mer95

<220>
 <221> misc_feature
 <222> (314)..(315)
 <223> n is a, c, g or t

<400> 94
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 acataacaca aaacgtaagc ttacatcctt tgtcagcgtg attcagtga attaaaccaa 180
 tcagctatag acaaatcagc ttaaacagct ctacttgccc taaaagaat gttaatgtat 240
 aacagccaat cagaaaaag gtcaaaatac ttctctctt atgctttata aactgtgcta 300
 tgactgccgt ragngagct tcttaccact ttcrgyttga rgtctcccg ttcgcgarct 360
 gtwctttctc tyattgtatg cacaataaac tttaaaattt ttcctaactt gatctgattt 420
 tawttttgac a 431

<210> 95
 <211> 175
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(175)

<223> mer 96

<400> 95
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 tcactctcag ggtcgtgcaa gtgcagggtc ggcatttgca cgaccctgag agtgagtgcc 120
 tccttaaatt ttgcgcccta ggcgcctcac ttgcctcacc ctagtcctgg ccctg 175

<210> 96
 <211> 434
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(434)
 <223> mer96b

<220>
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 <222> (5)..(5)
 <223> n is a, c, g or t

<220>
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 <222> (183)..(183)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (214)..(214)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (284)..(284)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (297)..(297)
 <223> n is a, c, g or t

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 <221> misc_feature
 <222> (301)..(301)
 <223> n is a, c, g or t

<220>
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 <222> (323)..(323)
 <223> n is a, c, g or t

<220>
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 <222> (359)..(359)
 <223> n is a, c, g or t

<220>
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 <222> (399)..(399)
 <223> n is a, c, g or t

<220>
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 <222> (409)..(409)
 <223> n is a, c, g or t

<220>
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 <222> (431)..(431)
 <223> n is a, c, g or t

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 aatgaaaaaa tccatgacaa aatgtcaaaa tkttaaataa agatatkatc agtatgactg 180
 atntttcatt ttgcctcagg ctccagtatg agtngacact gcacagtttc tgatcctgta 240
 tttaaaattt tgatattttg ttcacatgag atttttttgc attnattttg atttttnaaa 300
 ntattacatt aaatactatg tanctwtwtw attryattcag atattattta tcttgattnc 360
 tgartgtttt ggtacctyct taaattttgc gccygaggnr agtgcctcnc tcgcctcacc 420
 ctagttctgg ntct 434

<210> 97
 <211> 1106
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(1106)
 <223> mer97

<400> 97
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 gtgagtaatt gcataaagta caaacttcgc tgctagctct tcagtcacaa aatcactaca 180
 taaataacag atgcgcatca tgatcagtgga ccaatcacat cacttctttc aaagtctgtc 240

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ggtgattggt cactgtgcat ctgttattca gttcatgcac agacagcaaa gcgtgtagtt 300
gtgttgcctc cttgtctccc agtgataaac ccacgtgaca ttttacaaaa atggataatc 360
gaaagagggg attggccaac aaagatgaaa gtgcagcaaa gaaacgaaaa gtgataatgc 420
tggaagtgaa attcgaatca aacgtaaatg gagttataga agaaatagct gaccgtggga 480
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gcgaacttat cgacataaat gaggaaagtg gttgtgacga aaaggatgaa gatgtcccag 600
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aaataaatat tagttttatt atttttttca ttccctatac atttataacc gacggttaaga 960
gagtttttaa tgtttttgac aaaaattttt aaaggtcacg gaacaattat aattttccca 1020
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ctaccgtgca aagcgaggac tgcctg 1106

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<210> 98
<211> 787
<212> DNA
<213> Homo sapiens

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<220>
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<222> (1)..(787)
<223> mer99

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<222> (16)..(16)
<223> n is a, c, g or t

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<220>
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<222> (102)..(102)
<223> n is a, c, g or t

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<220>
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<223> n is a, c, g or t

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<220>
<221> misc_feature
<222> (143)..(143)

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<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (159)..(159)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (223)..(223)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (228)..(228)

<223> n is a, c, g or t

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<221> misc_feature

<222> (299)..(299)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (305)..(305)

<223> n is a, c, g or t

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<223> n is a, c, g or t

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<222> (402)..(402)

<223> n is a, c, g or t

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<221> misc_feature

<222> (473)..(473)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (515)..(515)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (591)..(591)

<223> n is a, c, g or t

<220>
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 <223> n is a, c, g or t

<220>
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 <222> (688)..(688)
 <223> n is a, c, g or t

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 trgayatcta aaaatygttt trnttaawaa craatattna gcttagtagg atttacaar 180
 aaytayagyy tataataaat attcaaacac tgaaaaacas hancaaanat tattgggtag 240
 tattcaaata acattcagat ctcttaacaa agttasgrga caacactaca cagagtcana 300
 tgtcnaaact gccaatttaa ggacttattt tgcttccaaa acyyattatt tcttggaata 360
 ccactcatag gatttgata aagtatacna trcatataaa cntattaata tttattttat 420
 ttgcaagaat gattcaccat tagcagyaka carggccatg aacacatast tanaatggca 480
 acagctacaa gcaaggctga ctgattaatt raatngtgcc acttctctct tacgtgytcc 540
 tgtcctgggtt tctrгааааа ccraccttaa ccttcaactc catgtgcyma nrtttyctgc 600
 tcytgctttc aacttgntgt cactggattc cttcaaata gtaatgtctc tatgttgatt 660
 gttaagtttt aatttttcag agaataanat tttttcttat tttcccratt tttyaactga 720
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 gaaacac 787

<210> 99
 <211> 262
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(262)
 <223> mir

<400> 99
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 cagtttcctc atctgtaaaa tggggataat aatagtacct acctcatagg gttgttgatga 180
 ggattaaatg agttaataya tgtaaagcgc ttagaacagt gcctggcaca tagtaagcgc 240
 tcaataaatg ttrgytatta tt 262

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<210> 100
 <211> 374
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(374)
 <223> mlt1a

<400> 100
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 ggcggggccc tcataatggg attagtgcc ttataaaaga gaccycagag agctcccttg 180
 ccccttcgc catgtgagga cacagtgaga aggcgccgtc tacgaaccag ggaatgagcc 240
 ctcaccagaa actgaatctg ccggcgcctt gatcttgac ttcccagcct ccagaactgt 300
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 aacagactaa gaca 374

<210> 101
 <211> 390
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(390)
 <223> mlt1b

<400> 101
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 ctcagaatgt gactgtatgt ggagataggg tctttaaaga ggtaattaag ttaaaatgag 120
 gtcattaggg tgggccctaa tccaatatga ctggtgtcct tataagaaga ggaaattwgg 180
 acacagacac gcacagaggr aagrccatgt gargacacag ggagaaggcg gccatctrca 240
 agccaaggag agaggcctca gaagaaacca accctgccgr caccttgatc tcggacttcy 300
 agcctccaga actgtgagaa aataaatttc tgttgtttta gccacccagt ctgtggtact 360
 ttgttacggc agccctagsa aactaataca 390

<210> 102
 <211> 466
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region

<222> (1)..(466)
 <223> mlt1c

<400> 102
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 ctcagaatgt gaccttattt ggaaataggg tcwttgcaga tgtaattagt taagatgagg 120
 tcatactgga gtaggggtggg ccctaaatcc aatatgactg gtgtccttat aaraagagga 180
 aatttgagca cagacacgca cacggggaga aggccatgtg aagacggagg cagagattgg 240
 agtgatgcak ctacaagcca aggaacgcca argrytgcca gcaaaccacc agaagctagg 300
 aagaggcaag gaacagattc tccctcacag ccytcagagg arrccagccc tgccgacacc 360
 ttsatctcgg acttctggcc tccagaactg tgagagaata mathttctgtt gtttaagcca 420
 cscagtttgt ggtactttgt tacggcagcc cyaggaaact aataca 466

<210> 103
 <211> 506
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(505)
 <223> mlt1d

<220>
 <221> misc_feature
 <222> (238)..(239)
 <223> n is a, c, g or t

<400> 103
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 aatatgttac cttacatggc aaaagggact ttgcagatgt gattaagtta aggatcttga 120
 gatggggaga ttatcctgga ttatccgggt gggcccaatg taatcacaag ggtccttawa 180
 agagggaggc agagggtcag agtcagaaga aggagatgtg acgatggaag cagrragnng 240
 aaaactcaac gttgctggct ttgaagatgg aggaaggggc catgagccaa ggaatgcggg 300
 cagcctctag aagctggaaa aggcaaggaa acggattctc ccctagagcc tccagaarga 360
 acgcggccct gccgacacct tgatttttagc ccagtgagac ycatttttga cttctgacct 420
 ccagaactgt aagataataa atttgtgttg ttttaagcca ctaagtttgt ggtaatttgt 480
 tacagcagcm ayaggaaact aataca 506

<210> 104
 <211> 568
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(568)
 <223> mltle

<220>
 <221> misc_feature
 <222> (228)..(231)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (233)..(234)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (236)..(237)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (258)..(259)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (398)..(398)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (433)..(433)
 <223> n is a, c, g or t

<400> 104
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 gagtgtgagt aggacctgtg acttgcttct agccaacgga atatggcaaa ggtgatgara 120
 trtcacgtga ttacgcgtac gtgattatgt aasattcagt ctttgmcgtc attcttgccg 180
 agagactctc ctscctggyt tgaagaagta agctgccacg tcatgagnnn ncnannaga 240
 rygccgcaag gcaagggmnt ctagagctga gagtcgccct tactgatggg cagcaagaag 300
 caagccacct cagtcctaca gccgcaaaga actgaattct gccacaacc tagtgagctt 360
 ggaagcagat cctgcccagt cgagcctcca gatgagancg cagccctggc tgacgccttg 420
 actgcagcct tgntagacct tgagcagagg acccagctaa gccgtgccca gactcctgac 480
 ccacagaaac tgtgagataa taaatgtgtg ttgttttaag ccgctaagtt tgtggttaatt 540
 tgttacgcag caatagaaaa ctaacaca 568

<210> 105
 <211> 641
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(641)
 <223> mlt1e1

<220>
 <221> misc_feature
 <222> (74)..(74)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (369)..(369)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (376)..(376)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (380)..(380)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (398)..(398)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (447)..(447)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (555)..(555)
 <223> n is a, c, g or t

<400> 105
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 tataatcccc tcnccttgag tgtgggcagg atctgtgaat acgatgggat atcactcctg 120
 tgattaggtt acattatatg gcaaagggtga agggattttg cagatgtaat taagggttcct 180
 aatcagttga ctttgagtta atcaaaaggg agattatcct gggtgggcct gacctaatca 240

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ggtgagccct ttaaargagg ytctagaagt cagacatgga agaagtcaga gagattcaaa 300
gcagcagaga tgctctcctg ctggccttga agaagcaagc tgccatgttt tgtggagagg 360
gccatatgnc agggantggn gagcagcctc taggagcnga agtcctcagt cctacaacca 420
caaggaaatg aattctgcca acaaccngar tgagcttgga agaggatcyt gagcctccag 480
atgagaaygc agccccagct aacaccttga tttcagcctt gtgagaccct gagcagagga 540
cccagctaag ctgtncccag attcctgacc catagaaact gtgagataat aaatttgtgt 600
tgttttaagc tgctaagttt gtggttaattt gttatgcagc a 641

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<210> 106
<211> 593
<212> DNA
<213> Homo sapiens

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<220>
<221> repeat_region
<222> (1)..(593)
<223> mlt1e2

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<220>
<221> misc_feature
<222> (35)..(35)
<223> n is a, c, g or t

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<220>
<221> misc_feature
<222> (97)..(97)
<223> n is a, c, g or t

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<400> 106
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gtaattaagg ttactaacct taaaataggg agattancct ggattatctg ggtgggccta 120
atctaatac atgagccctt aaaagcagag agttttctcc ggctgatagc aggaaatgta 180
aagcagaaga ggaagtcaga gagatttgaa gcatgagaag rattcgatgt accattgctg 240
gctttgaaga tggagggggc cacgatgcaa gaaatggaag aggcctctag gagctgagag 300
tggtctccag ctgacagcca gcaaggaaat ggggacctca gtcctacaac cacaaggaac 360
tgaattctgc caacaacctg aatgagcttg gaagtggatt cttccccaga gcctccagat 420
aagagcccag cctagctgac acctttgatt tcagccttgt gagaccttaa gcagagaacc 480
cagttaagcc tacctggact tctgacctac agaactgtga gataataaat ggggtgttgtt 540
ttaagctgct aaatttgttg taatttgta cacagcaata gaaaactaat aca 593

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<210> 107
<211> 541

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<212> DNA
<213> Homo sapiens

<220>
<221> repeat_region
<222> (1)..(541)
<223> mlt1f

<220>
<221> misc_feature
<222> (179)..(179)
<223> n is a, c, g or t

<400> 107
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gtatgggtcyc ytcctacatt garyyagggc trgtctgtgt gaccaataga atagggcaga 120
agtgatggcg tgtsacttcc aagaytargt cayaaawaac actgtggytt ctgcyttgnt 180
ctcttcgggc tactcactct gggggaagcc agctgccatg ctatgaagac actcaagcag 240
cctatggaga agtccacgtg gsaaggaact gaggtctcct gccaacagcc agcttcgacy 300
tgccagccat gtgagtgagc catcttgga gcgatcctc cagccccagt yaagccttca 360
gatgactgca gccccggctg acatcttgac tgcaacctca tgagagaccc tgagccagaa 420
ctaccagct aagctgctcc tarattcctg acccacagaa actgtgagat aataaatgtt 480
trttgtttta agccactaag ttttggggta atttgttacg cagcaataga taactaatac 540
a 541

<210> 108
<211> 561
<212> DNA
<213> Homo sapiens

<220>
<221> repeat_region
<222> (1)..(561)
<223> mlt1f1

<220>
<221> misc_feature
<222> (62)..(62)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (165)..(165)
<223> n is a, c, g or t

<400> 108
tgtccacaaa ttctttgata ctctctttaa gaggtggagt ctaattcccc tccccttgaa 60

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tntgggctgg acttagtgac ttgcttctaa ccaatagaat atggcagaag tgatggtatg 120
 tgacttctaa ggctaggtca taaaaggcat tgywgtagct tcctncttgc tctctctctc 180
 tctctctctt ggatcactca ctctggggga agccagctgc catgtcatga ggacactcaa 240
 gcagccctgt ggagaggccc atgtggcaag gaactgaggc ctctgcca cagccagcaa 300
 ggaactgagg cctcctgcca acagccatgt gagtgagcca tcttggaagc agatcctcca 360
 gccccagtca agccttcaga tgactgcagc cccagctaac atcttgactg caacctcatg 420
 agagaccctg agccagaacc acccagctaa gctgctccta aattcctgac ccacagaaac 480
 tgtgagagat aataaatgtt tgttgtttta agccactaag ttttggggta atttgttatg 540
 cagcaataga taactaatac a 561

<210> 109
 <211> 512
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(512)
 <223> mlt1g

<220>
 <221> misc_feature
 <222> (66)..(66)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (279)..(279)
 <223> n is a, c, g or t

<400> 109
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 tccgtntcct ctccccttga atctgggtgg gctctgtgac tgcttcgacc aatagaatrc 120
 ggtggaagtg atgctrtgtg acttctgags ccaggtyata aaarrcattg cagcttcctg 180
 cttgctggaa ckctcacact tggagtcctg agccaccacg taagaagttc arcrrccccg 240
 aggccaccat gctgtgagga agcccaagct astccacana gagaaaccga gccatcttgr 300
 aagcggatcc tccagcccca gtyaagyctt cagatgactg cagcyccggc tggcgtcttg 360
 actgcgccga taccacgtgg gacagagawg aactrcccag ctaagcccag cccaaattgc 420
 tgacctatag tattgrgaac gaataaatgr ttattgtttt aagccactaa gttttgggg 480
 ggtttggttac gcagcartag ataactgaaa ca 512

<210> 110

<211> 379
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(379)
 <223> mlt1g1

<220>
 <221> misc_feature
 <222> (329)..(329)
 <223> n is a, c, g or t

<400> 110
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 ctttcaatgt gacctttgcc acttcttcca tcaagaggtg gggctctatgt cccctcccct 120
 tgaatctggg cagacctttg tgactgcctt gaccaataga atatggtaga agtgatgctg 180
 tgtgacttct gaggctaggt cataaaagtg ccatgcactt ctgccttgct cacttgggac 240
 actcactctt ggaaccagc caccatgctg tgaggaagcc caagcagccc atggagagac 300
 ccgtggagag gatctgaggt tcctggtcna cagccccagc tgagctccca gccaacagcc 360
 agcatcaact tgccagcca 379

<210> 111
 <211> 622
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(622)
 <223> mlt1g2

<220>
 <221> misc_feature
 <222> (550)..(550)
 <223> n is a, c, g or t

<400> 111
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 tcaatgtgac tttagactc ttcccatcaa gaggtagggg tctatgtccc ctccccttga 120
 atctgggtag gcttgtgact gcttctgacc aatagagtat ggtagaagtg acactgtgtg 180
 acttctgagg ctaggtcata aaaggcaatg cagcttctgc ctgccttggt cgctggaaca 240
 ctcactcttg gagccctgag ccaccatgta agaagtctga ctaccctgag gctaccatgc 300
 tgtgaggaag ccaagccaca tggagaggcc atgtgtaggc attctgatca acagccctag 360
 tgtttgagtc atcccagccc aggtgccaga catgtgagtg aagaagcctt cagatgattc 420

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cagccccag ccattgagtc acccccagcc ttcgaatctt cccagctgag gccccagaca	480
tcatggagca gagacaagcc atccctactg tgccctgtct gaattcctga cccacagaat	540
ctgtgagaan gcataataaa atgggtgttt taagccacta agttttgggg tgrtttgta	600
cacagcaata gtaactggaa ca	622

<210> 112
 <211> 547
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(547)
 <223> mlt1h

<220>
 <221> misc_feature
 <222> (9)..(9)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (371)..(371)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (224)..(224)
 <223> n is a, c, g or t

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tctgggctgg ccwtgtgact tgctttggcc aatrgaatgc kgcagaagtg acggtgtgcc	180
agttccgagc ctaggcctca agaggccttg cgtgcttccg ctncctctct tggaaccctg	240
ccaccgccat gwgaacaagc ccgggctagc ctgctggagg atgagagacc acgtggagga	300
gagccgagsc gccccagctg aggccatcct ggacmggcca gccccagcc aagatcagca	360
gagccaccaa ntcaaccagc agctgaccac agatgcatga gggagcccag ctgagaccag	420
aagaaccgcc cagctgagcc cagcccaaat tgccgacctg cagaatcgtg agctaaaata	480
aatgggtgtt gttttaagcc actaagtttt ggggtggttt gttatgcagc aatagctaac	540
tgataca	547

<210> 113
 <211> 313

<212> DNA
<213> Homo sapiens

<220>
<221> repeat_region
<222> (1)..(313)
<223> mlt1h1

<220>
<221> misc_feature
<222> (6)..(6)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (39)..(39)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (43)..(43)
<223> n is a, c, g or t

<220>
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<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (102)..(102)
<223> n is a, c, g or t

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<221> misc_feature
<222> (172)..(172)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (182)..(182)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (196)..(196)
<223> n is a, c, g or t

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ccagccttcc agccatccct accaaggtac cagacatgtg antaaagcca tcttgattg 120
tctaggccag cccakctgcc agmtgaatac cactgagtga cccagtcaa tntayatgg 180

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ancagaagaa tcaccnagct aagccctgcc caaatcctg acccacaaaa tcatgarata 240
 taataaaatg gttgttgttt taagcyacta agttttggga tacttttcta cacatcaata 300
 gataactgga aca 313

<210> 114
 <211> 314
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(314)
 <223> mlt1i

<400> 114
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 agaccacaat gttccagatg gaggctgctc catcagcctg ggtccctgag tgaggaatga 180
 catggagcag agccccagct gacctacaat agacatgtaa catgagtaag aaataaacct 240
 ttgtttgttt aagccactga gatttggggg ttatttggtta ctgcagcata acctagccta 300
 tcctgactga taca 314

<210> 115
 <211> 516
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(516)
 <223> mlt1j

<400> 115
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 aamccccaat ttttagctgg gcacatggcc acccagaaat aaagactaca tttcccagcc 120
 tcccttgtag ctaggtgtgg ccatgtgact ttctaagttc tggccaatga gatggtaagc 180
 agaagtgatg tgtgcaactt ctaggaaatg tccttaaaga gaggggcayg cccttctttt 240
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 cttggaccat gaggtgaaag ccacatgcta aggatggcag agcagcaaga tagaaggagc 360
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 acttctatat gagagagaaa taaattctat cttgtttaag ccactgttat tttgggtttt 480
 ctgttacttg cagctaaacc taatcctaac ayacca 516

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<210> 116
 <211> 435
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(435)
 <223> mlt1j1

<400> 116
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 tcccagcctc ccttgcagct taggtgtggc catgtgactg agttctagcc aatggaatgt 120
 aagcagaagt gatgtgtgtc acttccaggc ctggcccata aaacctcca tgccatcttc 180
 ctctctattc tctcttctsc tgcattctgt ggctggatgt taacaccag ggtgaccttg 240
 gaagccatat gttgaagatg gcagagcctc catcagcctg ggtccctgaa tgactgtgtg 300
 gagcagagca ccactccac cccccatca tcaattggac ttacatgag caagaaataa 360
 acttctattg tgttaagcca ctgagatttt gagggtttat ttgttacagc agctagtgtt 420
 accttaacta ataca 435

<210> 117
 <211> 417
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(417)
 <223> mlt1j2

<220>
 <221> misc_feature
 <222> (110)..(110)
 <223> n is a, c, g or t

<220>
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 <222> (328)..(328)
 <223> n is a, c, g or t

<400> 117
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 ctgactaca tttcccagcc tcccttgagc ttaggtgtgg ccatgtgacn tgagttctgg 120
 ccaatggaat gtgggcagaa gtgatgtatr ccacttccag gcctggccca taaaaccctc 180
 caatayataa tcctctctct ctctttcttc mtcbrctggc tggatgcaga gaatccaaag 240
 gactccaagg atggttagagc cacaagatgg aaggagcctg ggtccctgag tcactacttg 300

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gaggagagcc actcagcaga aacacccnac cagaaacca cactgaattg taacatgagt 360
gagaaataaa cttttattgt gttaagccac tgagatttgg gggtttttgt tacagca 417

<210> 118
<211> 476
<212> DNA
<213> Homo sapiens

<220>
<221> repeat_region
<222> (1)..(476)
<223>

<400> 118
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gacccaagct gggccaatga gagttctcaa gccctgggac ttttgctgga actattggga 180
aagagrtggt ctttttctcc tggggttgct aagctggtag gatgtaagcc tggagctgct 240
ggtggtcatc ttgccaccac rtggagagag cctgcctgag aatgaagcca acacagagga 300
aagcagagcc aagagatgga gagagacaga ttcctgatga catcatttga gcacctggat 360
ccagccatgc ctgaagccag atctatgcta cccctggact tttcagttac atgagccaat 420
aaattctctt ttttgcttaa gcyagtttga gttgggtttc ttgtcacttg yaacca 476

<210> 119
<211> 356
<212> DNA
<213> Homo sapiens

<220>
<221> repeat_region
<222> (1)..(356)
<223> ml11

<220>
<221> misc_feature
<222> (120)..(120)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (136)..(136)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (159)..(159)
<223> n is a, c, g or t

<220>
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 <223> n is a, c, g or t

<220>
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 <222> (273)..(273)
 <223> n is a, c, g or t

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ttaggaatgg gcatgtgaca caattctggc caatgagaca tgaggggaag tctgctgggn		120
gggcttctgg aaaagntttt cttttttaat taaaaaatnt aaagagaaaa catgtcctct		180
tttcttgctc ttgntttgga tgttgttttg tgaggatgtg atgcttgag ctgtggcagc		240
catcttgcaa ccatgaggcg acaagcctga gangraaagc caacacactg aggatggcag		300
agcagaaaga taaaaagaac ctgggtcctt gatgatatyg ttgagctgct gaatca		356

<210> 120
 <211> 1338
 <212> DNA
 <213> Homo sapiens

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 <223> mlt1r

<220>
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 <222> (533)..(533)
 <223> n is a, c, g or t

<220>
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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

<220>
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<222> (642)..(642)
 <223> n is a, c, g or t

<220>
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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

<220>
 <221> misc_feature
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 <223> n is a, c, g or t

<220>
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 <222> (1129)..(1129)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (1192)..(1192)
 <223> n is a, c, g or t

<400> 120
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 ggctcagaaa ggaagwggag agctatagag aaagctcccg tcgtcttaga gaatacaaaa 240
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 cagacggaaa tgaggggagat gttattgaaa attggaggaa aggtgatcct tgttataaag 360
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 yaagtgatga actkggatat tcagctgagg aaatttctaa gcaaagtgtt gagggcgcaa 480
 cctgacttct cctaactgct tatagtaaaa tgtgagagac ataaagatgg aantgttgag 540
 taaaaaggaa ccagaacgta aagatttgga aaattctcag cctgatcatg taacagaaan 600
 nncaatagcg ttctctggaa agaanaccaa ggatgtnncc gngcaaccgt ttgctaaaga 660

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gattagrattc gtgactcgtg ggtccaatca accatctcag caraarccar gaatagagat	720
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cttncatagg agaccgacaa ggntttttgag aatnttacac cagcagaaac actgccaaact	840
tggactraag ggracagaga cgagaaaaaa tgaaggaagr gtggcagacc gaaggtgggg	900
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gatgyrgrtg atatttcgct gagattgtgg actaagagtt ggtgctggaa ggggttagac	1260
attggggaga tgttgctatg ggatgcaggg attttgcattg tgagaaggac atgattatgg	1320
ggggagcgga gggcaaac	1338

<210> 121
 <211> 444
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(444)
 <223> mlt2a1

<400> 121	
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gggtgtgtct gtgaggggtgt tgccaaagga ggttaacatt ggactcagtg ggctggggag	120
aggcagaccc acccttaatc tgrgtgggag cmatcyaatc agctgccagc gtggctagaa	180
tataaagcag gcagaaaaat gtgaaaagag agactggcct agcctcccag cctacatctt	240
tctcccgtgc tggatgcttc ctgcccttga acatcagact ccaagttctt cagttttggg	300
actcggactg gctctccttg ctctcagct tgcagacggc ctattgtggg accttgat	360
cgtgtgagtt aatacttaat aaactcccct ttatatatat ctattcyatt agttctgtcc	420
ctctagagaa ccctgactaa taca	444

<210> 122
 <211> 549
 <212> DNA
 <213> Homo sapiens

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 <223> mlt2a2

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<400> 122
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ggcagaccca ccctcaatct ggggtgggcac catctaata gctgccagca cggctagaat    180
aaagcaggca gaagaatgtg gaaggagcag actkgctgag tcttctggcc ttcattcttc    240
tcccgtgctg gatgcttcct gccctcgaac atcagactcc aagttcttca gcttttggac    300
tcttggaactt acaccagtgg tttgccaggg gctctcaggg ctttgccac agactgaagg    360
ctgcaactgt ggcttcccta cttttgaggt tttgggactc agactggctt ccttgctcct    420
cagcttgtag acggcctatt gtgggacttc accttgtagt cgtgtgagtc aatactcctt    480
aataaactcc cyttcatata tacatctatc ctattagttc tgtccctcta gagaaccctg    540
actaataca                                     549

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<210> 123
<211> 503
<212> DNA
<213> Homo sapiens

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<220>
<221> repeat_region
<222> (1)..(503)
<223> mlt2b2

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<400> 123
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gcggaactgag taaagaagat tgccctcacc aatgtgggag ggcattcatc aatccgttga    180
gggcctgrat agaacaaaaa ggcagaggaa ggggtgaattt gctctctctc cttgagctgg    240
gacatccatc ttctcctgcc cttggacatt agaactccag gttctcgggc cttcggacty    300
cggaacttgc accagcagcc cccagattc tcaggccttc ggactcggac tgaryyacgc    360
caccggcttc cctggttctc cagcttgtag acggcatatc gtgggacttc tcagcctcca    420
taatcacgtg agccaattcc cctaataaat ccytctatc catcctattg gttctgtctc    480
tctggagaac cctgactaat aca                                     503

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<210> 124
<211> 450
<212> DNA
<213> Homo sapiens

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<220>
<221> repeat_region
<222> (1)..(450)

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<223> mlt2c2

<220>

<221> misc_feature

<222> (260)..(260)

<223> n is a, c, g or t

<400> 124

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acaycagtct agatgttgct gtgaaggat ttttagatg tgattaacat ttayagtcag	120
ttgactttaa gtaaaggaga ttaccctcca taatgtgggt gggcctcatc caatcagttg	180
aaggccttaa gagcaaagac tgaggtttcc cgaggaagaa gaaattctgc ctcaagactg	240
caacgtggaa atcctgctgn ttwccagcc tccaagcctt cggactcgaa ctgcaacatc	300
arctcttscc tgggtctcca gcctgccggc ctaccctgca gatttcggac ttgccagcct	360
ccacaatcgc gtgagccaat tccttaaaat aaatctctct ctacacacac cctattggtt	420
ctgtttctct ggagaaccct gactaataca	450

<210> 125

<211> 388

<212> DNA

<213> Homo sapiens

<220>

<221> repeat_region

<222> (1)..(388)

<223> mlt2d

<220>

<221> misc_feature

<222> (243)..(243)

<223> n is a, c, g or t

<400> 125

tgtgatagtt aattttatgt gtcaacttgg ctaggctatg gtgtccagac gtttggtcaa	60
acattagtct ggggtgtttct gtgaaggtta ttttttgat gagattaaca tttaaatacgg	120
tagactgagt aaagcagatt accctcccta atgtgggtgg acctcatcta atcagttgaa	180
ggcctgaatg gaaaaaaagg gctgaccctc ccccaagtaa gaggaaattc tgctgcctg	240
atngtcttcg aactggaata tcagctctgc ggattttgga cttgccagcc tccataattg	300
catgagccaa ttccttataa taaatctatc tactctctct acacacaccc tattggttct	360
gtttctcttg agaaccctga ctaataca	388

<210> 126

<211> 622

<212> DNA

<213> Homo sapiens

<220>

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<222> (1)..(622)

<223> mlt2e

<220>

<221> misc_feature

<222> (26)..(26)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (35)..(35)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (332)..(332)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (344)..(344)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (389)..(389)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (440)..(440)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (452)..(452)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (575)..(575)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (608)..(608)

<223> n is a, c, g or t

<400> 126

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tccctgtatg	gttctgggtt	agagttggcc	aaagatgaaa	ttgtggaaga	tttgaaggcc	120
agaagtgaag	cagcagccat	tacactctga	aggtcatcat	tggttasagg	cagtgaagaga	180
tgGCCagatg	cagaggtgcc	caggaggttc	cagcttgtcc	tcactctccc	ctgctcyata	240
tccagctctt	cttcctgacc	actggccctg	ctgaccaaca	gcarccccag	gcccaccacc	300
agatgcttgg	ctgcaaactc	acagaggtag	tngccacaca	gagncaacaa	ctttccatag	360
agttctccac	cagctcccct	tcattggtcnc	acttyagcgg	ctggatatgc	ttagcttcaa	420
atttccccac	aagctccagn	ctcattcaac	tncgccagag	ctggtttagtg	accctttttc	480
tgatccttca	actccccct	ccagaccttc	acttccccag	ctcctccac	aattgtataa	540
ggtctaattc	ctataataaa	tcccttattc	catanatact	acatagtggc	tctgcttccc	600
tgactganac	ctgactaata	ca				622

<210> 127
 <211> 661
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(661)
 <223> mlt2f

<400> 127	
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ggcggaagtg	aagcagcagc cttttgttt tctgtgctcg gagaggtcag agtcagcagg 180
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ctggggccagg	tgtgtgtkta gctccgtgac gaagggcgcc agcttctcct gcaggacacc 360
cacatcatcg	aggtcggagg cagtgaagaga ctgacatggg ttccagtttg tcctcgtggg 420
ttccagctca	tgcttgtggg ttccagcttg tccttgctct cccccacttt atatccatct 480
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gccttacaga	gactgcttaa ccagctccca caattgcgta aggtcaaadc cctataataa 600
atctcttatt	atatatatct cctagtgggt ctgcttctct gattgaaccc tgactgatac 660
a	661

<210> 128
 <211> 281
 <212> DNA

<213> Homo sapiens

<220>

<221> repeat_region

<222> (1)..(281)

<223> msr1

<400> 128

agtcaagacc cccagcccct cctccctcag acccaggagt caagaacccc cagcccctcc 60

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acccccagc cctcctccc tcagactcat gagtccagac ccccagcccc tcctccctca 180

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cccctcctcc ctcagacca ggagtccagg cccacccct c 281

<210> 129

<211> 426

<212> DNA

<213> Homo sapiens

<220>

<221> repeat_region

<222> (1)..(426)

<223> msta

<220>

<221> misc_feature

<222> (274)..(274)

<223> n is a, c, g or t

<400> 129

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tagcaccatc cccttggtgc tgyctcgtg atagtgagtg agttctcatg agatctggtc 180

gtttaaaagt gtgtggcacc tccycctct ctctcttgct cctgctctcg ccatgtgacg 240

tgctgtctcc cccttcgcct tccgccatga ttgnaagctt cctgaggcyt cccagaagc 300

cgagcagatg ccagcgccat gcttcctgta cagcctgcag aaccgtgagc caattaaacc 360

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aataca 426

<210> 130

<211> 465

<212> DNA

<213> Homo sapiens

<220>

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<222> (1)..(465)

<223> msta1

<220>

<221> misc_feature

<222> (143)..(143)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (227)..(227)

<223> n is a, c, g or t

<400> 130

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aatagattaa tgccctcctt tgnngtgga atgagtgagt tctcactcta ttgtgggaat	180
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gctttttgtc cagccagcag aaytatgagc caaataaacc tcttttcttt ataaattacc	420
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<210> 131

<211> 1651

<212> DNA

<213> Homo sapiens

<220>

<221> repeat_region

<222> (1)..(1651)

<223> mstar

<400> 131

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ttgggaactg gagcaaaggt cactcttggt atacattagc aaagagcttg gctgcatttt	300
gcccctgccc tagagatttg tggaagtttg aacttgagag tgatgatcta gggatatctg	360
cggaagaaat ttctaagcag caaagcggtc aagatgtgac ctggctgctt ttaacagctt	420
acagtcatat gcgagagcaa agaaatcact taaagttgga atttatatattt aaaagggag	480
cagagcgtaa aagtttgga aatttgcagc ctggccatgt gatagaaaag aaaaaccctg	540

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ctaaaaggaa gccaagtgtc gatagccaag acaatgggaa aaaggcctcg aaggcatttc 660
agaaatcttc gaggtggtcc ttcccatcac agggccagag gcctaggagg actgaatggt 720
ttcgtggggc agggccaggg ccccgctgcc ctgtgcagcc tcgggacact gctccctgca 780
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aaggaacttg ctttgtctca gatgagactt tggactttgg acttttgagt taatgctgga 1560
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gacgtgagat ttgggggaac caggggcaga a 1651

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<210> 132
<211> 405
<212> DNA
<213> Homo sapiens

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<223> mstc

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<223> n is a, c, g or t

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<223> n is a, c, g or t

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 <223> n is a, c, g or t

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 aatggattaa tggattaacg tattaatgga ttaattgggt atcacgggag tgggatcggt 180
 ggctctatca taaaarycat tttgnctctc gnrtgngccc cttcttgccc tttcacgcct 240
 tccgcatgt tatgacagag cacaaggccc tcaccagaaa ccagatgcag ccgcatgat 300
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<210> 133
 <211> 630
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(630)
 <223> ors1

<220>
 <221> misc_feature
 <222> (461)..(461)
 <223> n is a, c, g or t

<400> 133
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 yatctttgaa tycyyaaaas ttagctcact gtgtgctcaa acgtgtattg aatgacagtt 120
 gctatatttg aggachacat agattttggg gaagacggac aggcacacta gcagaaccat 180
 acgaaggcca ggatcagtc taccagggc tgcattatga cttgtgggcc ctgagcactt 240
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 ggtgtgaggt tgaagaaagg aaatttgga caaagaagcc aagtgtcttg gagaagcagg 540
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 aagtttagas cttccagttc acttcmctt 630

<210> 134

<211> 660
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(660)
 <223> pab1_a

<220>
 <221> misc_feature
 <222> (88)..(88)
 <223> n is a, c, g or t

<400> 134
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 gtgggttaagt taaatattaa aagctganag agccagtgcc cttatacaaa ggctggaatg 120
 taacaaaagc ccaccaagag ttttgcctag gcctttcctg ggccttgaag catgacaaaa 180
 taacgaagga attcttaaca ggacccgttt aggattaaac aagttttact ggggggtctga 240
 agaaactccc caggcctcca caaacaagtt tattgggggt ctgaaggaac tccccaacc 300
 tccgtgattt agcaggagac aagataaggg taatcacccc agcacctgga cccatttaga 360
 ttaagtaaatt ttactgaggc tccagaggaa ggtcttcagg actcagacct tagttataga 420
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 cttagaaggt atataagctc tggaaaactt tgtaattttg agttgggtctg gtgataattt 540
 ccaggccttc tccctgtaac cggttacaga aataaaaact ctcttcctcc ccagttcatc 600
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<210> 135
 <211> 667
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(667)
 <223> pab1_b

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<210> 143
<211> 455
<212> DNA
<213> Homo sapiens

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<220>
<221> repeat_region
<222> (1)..(455)
<223> sn5

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30307CNT1.ST25

<400> 143
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 cctggcttct tccatgttga gttggtacta cccaccaagg ggggtagaga ggcgagcaga 180
 tgttgtctct ggcctgtgtc ttgttatcat ggtgctgact aggcctggta cagggccctg 240
 atgggggtgt cctgggtggt cacgggggtg atgagaagaa gatgcagaat ggattgctgt 300
 gaggatgaat gagacgactg tcagtacaga caggcacacg gtgaagtgtt cagggattcc 360
 cctcagtagc tgcccagacc caaaacctga ctctgagtc acgttactgt cccactatac 420
 gttaagagga gggaaagctg ggtcgcgcag gtccc 455

<210> 144
 <211> 1640
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(1640)
 <223> sva

<400> 144
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 cctgattctc ctgcctcagc ttgccgagtg cctgcgattg caggcgcgcg ccgccacgcc 180
 tgactggttt tcgtattttg ttagtggaga cggggtttcg ctgtgttggc cgggctggtc 240
 tccagctcct aaccgcgagt gatccaccag cctcggcctc ccgaggtgct gggattgcag 300
 acggagtctc gttcactcag tgctcaatga tgcccaggct ggagtgcagt ggcgtgatct 360
 cggctcgcta caacctccac ctcccagcag cctgccttgg cctcccaaag tgccgagatt 420
 gcagcctctg cccggccgcc acccgtctg ggaagtgagg agtgtctccg cctggccacc 480
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 agggaggtgg gggggctcag cccccgccc gccagccgcc ccgtccggga gggaggtggg 960
 gggatcagcc ccccgcccag ccagccgccc cgtccgggag ggaggtgggg gggtcagccc 1020

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cccgcccggc cagccgccct gtccgggagg tgaggggagc ctctgcccgg ccgcgccctac 1080
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tcattgagaa gggggccatga tgacaatggc ggttttgtgg aatagaaagg ggggaaaggt 1200
ggggaaaaga ttgagaaatc ggatgggtgc cgtgtctgtg tagaaagagg tagacctggg 1260
agacttttca ttttgttctg tactaagaaa aattcttctg ccttgggatc ctgttgatcg 1320
gtgaccttac ccccaaccct gtgctctctg aaacatgtgc tgtatccact cagggttgaa 1380
tggaattaaga gcggtgcaag atgtgctttg ttaaacagat gcttgaaggc agcatgctcc 1440
ttaagagtca tcaccactcc ctaatctcaa gtaccaggc acacaaacac tgcggaaggc 1500
cgcagggtcc tctgcctagg aaaaccagag accttgttgc acttgtttat ctgctgacct 1560
tccctccact attgtcctgt gaccctgcc aatccccctc tgtgagaaac acccaagaat 1620
gatcaataaa aaaaaaaaaa 1640

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<210> 145
<211> 2111
<212> DNA
<213> Homo sapiens

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<220>
<221> repeat_region
<222> (1)..(2111)
<223> tarl

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<400> 145
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gcaggaaaac caaagaaaac aggcggagac ttgagacaga ggcaggaatg tgaagaagtc 120
caaaataaaa atccctgcac aggactctta ggctgttatc atgcactatc agcctactcc 180
tccctatfff tgtacaataa gctctttaca ctgtatttct tttcaatgaa gttatcttcc 240
atctttgtac tgcctcttgg tgaaaagctg tcttccaagt taataactgg gacatcagct 300
ctctgcagta atagctcctt ttcagtttta atttgcagaa ctgatgggga ttaataactg 360
gcgctctgac ttttaagtggg gcaggaggcg gccagtaggg gacgccagcc gttacgccgg 420
gagcaagagg gccctgcgta gtccccatct gcctgcatgt ggcgtgcagc cacgacaatg 480
gcagcaagag ggcccggcag tgtgcccagc tgccagcagg cgggtgtgct gccactataa 540
tgtgaggaag agggccctgc aatgtcccta gctgccagca ggcggcgtgc caccactata 600
ctgcgagcaa gagagccctg ccgtgccccg gcgccagcag ggggcgctgg acagcactgt 660
aagcaagagg gccctgcagt tgtcctagtc gccagtaggg gacgcaatgg cagagcaccg 720
tgggcaagct ggtcctgtag tgcccggctg caagcagggg gcgcccga aa cgggcttttc 780
agattactca ggttccactc gtctctgcgc cgccggggac gtgtgtctct gcgctgcac 840

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30307CNT1.ST25

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cgcgccaccc ccgcgctccc cgcccggcgg cgcgcgactg tgcgactgca acactccccg 900
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cagcgacccc tcccttcgg ggaggcgccg gcgtgcgtct acgccctgcg ccgcgtctcc 1020
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gaaaagcctc tctgaatcct gcgcaccgag atttctccaa ggcaaggcga ggggctgtat 1980
tgcaggggtc aagtgcagcg tcagaactca aatgcagcat tcctaataca cacatgacac 2040
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gggttcgggt t 2111

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<210> 146
<211> 364
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> repeat_region
<222> (1)..(364)
<223> thelb

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<220>
<221> misc_feature
<222> (192)..(192)
<223> n is a, c, g or t

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30307CNT1.ST25

<400> 146
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 gtgctgttct cgtgatagtg aataagtctc acgagatctg atggttttat aaaggggagt 180
 tyccctgcac angctctctt gcctgccgcc atgtaagacg tgmctttgct cctccttcgc 240
 cttcygcat gattgtgagg cctccccagc catgtggaac tgtgagtcca ttaaactctt 300
 ttyctttata aattaccag tctcgggtat gtctttatta gcagcatgag aacggactaa 360
 taca 364

<210> 147
 <211> 1580
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(1580)
 <223> thelbr

<400> 147
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 aaaatgtggg aaagtttgga acttcctaga gacttggtga atggctttga ccaaaatgct 180
 gatagtgata tggacaataa agtccaggct gaggtggtct cagatggaga tgaggaactt 240
 gttgggaact ggagcaaagg tgactcttgt tatgttttag caaagagact ggcggcattt 300
 tgcccctgcc ctagagattt gtggaacttt gaacttgaga gagatgattt agggatatctg 360
 gcggaagaaa tttctaagca gcaaagcgtt caagaggtga cttgggtgct gttaaaggca 420
 ttcagtttta aaagggaagc agagcataaa agttcggaaa atttgagcc tgacaatgcg 480
 atagaaaaga aaatccatt ttctgaggag aaattcaagc cggctgcaga aatttgcata 540
 agtaacgagg agccgaatgt taatcccaa gacaatggg aaaatgtctc cagggcatgt 600
 cagagatctt cgcggcagcc cctcccatca caggcccga ggcctaggag gaaaaaatgg 660
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 gtcccagccg ctccagccat ggctaaaagg ggccaacgta cagctcgggc cgtggcttca 780
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 aagtcaagaa ttgaggtttg ggaacctccg cctagatttc agaggatgta tggaaacgcc 900
 tggatgtcca ggcagaagtt tgctgcagg gcggggccct catggagaac ctctgctagg 960
 gcagtgcgga agggaaatgt ggggtcggag cccccacaca gagtccttac tggggcactg 1020
 cctagtggag ctgtgagaag agggccaccg tcctccagac cccagaatgg tagatccacc 1080

30307CNT1.ST25

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tgctttgtct cagatgagac tttggactgt ggacttttga gttaatgctg aaatgagtta	1500
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<210> 148
 <211> 2418
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(2418)
 <223> trigger1

<400> 148	
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cytcgggcct ccctattccc tgagacacaa caatattgaa attaggccaa ttaataacct	420
tacaatggcc tctaagtgtt caagtgaag gaagagtmrc acatctctca ctttaaatca	480
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ggaaattaaa agtgctactc cagtgaacac acgaatgata agaaagyaaa acagccttat	660
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taaggaaaga agccatctcc ataacataaa agtgcaagggt gaagcagcaa gtgctgatgt	900
agaagctgca gcaagttatc cagaagatct agctaagatc aytgatgaag gtggctacac	960

30307CNT1.ST25

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tgataaagca	gcggcagggt	ttgagaggat	tgactccaat	tttgaaagaa	gttctactgt	1980
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accttcagca	accaccacc	tgatcagtca	gcagccatca	acatcaaggc	aagaccctcc	2160
accagcaaaa	agattacgac	tcgctgaagg	ctcagatgat	cgttagcatt	ttttagcaat	2220
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aatagactac	agtatagcgt	aaacataact	tttatatgca	ctgggaaacc	aaaaaattcg	2340
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<210> 149
 <211> 2718
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(2718)
 <223> trigger2

<220>
 <221> misc_feature
 <222> (1061)..(1061)
 <223> n is a, c, g or t

<400> 149
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 cgaaccgcgt agcctagaaa tatcgaaaaa attaagaaaa agttaggtat gtcataaatg 180
 cataaaatat atgtagatac tagtctatct tatcatttac taccataaaa tatacacaaa 240
 tctattataa aaagttaaaa tttatcaaaa cttacgcaca cacttacaga ccgtacatgg 300
 cgccattcgc agtcgagaga aatgtaaaca aacgtaaaga tgcagtatta aatcataact 360
 gcataaaatt aactgtagta catactgtac tactgtaata atttcgtagc cacctcctgt 420
 tgctattgctg gtgagctcaa gtgttgcgag tatccgctta aaacgccatg tgacgctaata 480
 catctccgctg tgagcagttc gtctctccag taaattgcgt atcgagtaaa aaagtgatct 540
 ctgcggttcc tcgctgattt ttcacgtgtt ttagtgcaat accgtaaacc ttgaataaca 600
 ccatgggacc catacgaagt gccactagtg atgctggaag tgctcccaag aagcagagaa 660
 aagtcagac attacaagaa aaagtgaat tgcttgatat gtaccgtaga ttgaggtctg 720
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 gactgccttt taaagttctt ttgatattgg acaatgcccc tggccacca gaaccccatg 1560
 agttcaacac cgaaggcgct gaagtgtct acttgcccc aaacacaacg tctctaattc 1620
 agcctctaga tcagggggctc ataaggacct ttaaggctca ttacacacgg tactctatgg 1680

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aaaggattgt	caatgctatg	gaagagaacc	ccaatagaga	gaacatcatg	aaagtctgga	1740
aggattacac	cattgaagat	gccatcgttg	ttacagaaaa	agccgtgaaa	gccatcaagc	1800
ccgaaacaat	aaattcctgc	tgagagaaaac	tgtgtccaga	tgttgatcat	gacttcacag	1860
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ctatgatacg	ggcactgaaa	ctaaagcaaa	cggtggaaga	aggattggta	ccatatagaa	2220
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<210> 150
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 <212> DNA
 <213> Homo sapiens

<220>
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 <223> trigger5

<400> 150						
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ctctgtcgcg	atgctgggca	gcgrcagtga	rccgcagytg	ccagtcagcc	gcgcgatcac	180
gagggtaaac	aaccrrtayt	ctacagtgtg	ytrtrtgact	ggcgtttctt	ggacattgtg	240
tttcgcgctt	ttgcatcctg	tcatgtctac	agtatgctca	tctatgcctc	ctgcttctgg	300
tgagaagaag	aggaaggcaa	ttactcttga	gatgaaactc	aagataatcg	ccctgcatga	360
agacggcaag	ggattaatgg	ccattgcaca	agagttggga	ctttcacgat	ccatgatcct	420

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caaccatctt aaagaataag aagtgaatca gtgaggcagt gaaatcgtca gcattagtta	480
aatccactgt cacgaagaaa agagcttggc tgattgataa tatcgaaaaa ttacttgta	540
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agaagtgttt ttgattacac taaaagagtg aatgaatgtg tcgatgatcc tattatacac	660
aagtgtttat ggcaagtcag aggtgattcc agtgcttcaa aaggcatcat aattttctta	720
atgtgaaggt cagcagagag tcagcaagcg ctgatattga atgtgtcaaa gcttttagga	780
agagctgtac acgataattg tggataataa atatttccca ggacaaatat tttatgtaaa	840
taaaataggg ttgctctgga agcaacctgt caagaactta aggcattcag actgtgtatt	900
gctgcttttg ggtggaaatg ttgcagggtt caaattaaag cttttcctaa tttacaactc	960
agggaaaccca agaacactca agaatgtgag caagcattcg cttcttattt attatcacca	1020
taacaagaca ccctggagga cctcagcatt gttcgaagac tggcttttga actgttttct	1080
tccacaggca agagaatatt gtaagcaaaa aacgacttca ttcaagattc ttctgatctt	1140
agacagtgtc ccagggcacc cacagcatat aggtgacatg cattcttatg gaaagttatg	1200
agtttgctgc caaacacaac cacactcaac tcatggacca aggcacaata gctgcattca	1260
aagcacacta tgccaggcat ttgctccggc tgttgaaagt aatgaatctg gctgaatgct	1320
cctagagttc tggaaggtt ttaacattct aaatgctatc cagaatatca ctggagcatg	1380
gaaagaagtc acacagcaat gcatgaatgg catttggaag aaagttttga agacatgtga	1440
acacattcaa aggccttagc aaggttctgc tgttgatgaa acagtaacaa gatactagt	1500
cttgagaaat agctagaatt gatgaagagg atatttatta acttcttggc attgaatctg	1560
aagagctttc caatgaggag ataatcaaac tggaggaaga aagaagttga gaaagaggaa	1620
gaagttatac ctgaggcacc aagaaagtta acggcaaaga aactggcaga gatatttgcc	1680
actatcagca gtgccattca gaagttagaa gaaagggatg tcattattca caggagctga	1740
cacacagtac aggatgtctt tgcttgctac agagaaatat ataatgaaaa ggagaacaaa	1800
ctgtatagtc caaacctgat gtcttcctga agaacactat gcctgctaaa ccattaacaa	1860
gtatcgatgc cccagtgcct tctcccagct actctcaggc ctcacagaa gagaaattaa	1920
tgaccctgtt gcagtagcat ccccatcatc cagcaattaa ttttagttca atgcttcaaa	1980
cattcttcag gccagtatg cattcacctg tgtatgttac ttaattgtga gtaccatac	2040
aaccatactg ttttyactt tcagtacagt attcartaaa ttacatgaga tattcaacac	2100
tttattataa aataggcttt gtgttagatg attttgcca actgtaggct aatgtaagt	2160
ttctgagcat gtttaaggta ggctaggcta agctatgatg ttcggtaggt taggtgtatt	2220
aaatgcattt tcgacttaca atattttcaa cttacgatgg gtttatcggg atgtaacccc	2280
atcgtaaagtc gaggagcatc tg	2302

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<210> 151
 <211> 2806
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(2806)
 <223> zombi

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<400> 151
caggttgagc atccctaadc caaaaatccg aaatctgaaa tgctccaaaa tctgaaactt      60
tttgagcgct gacatgacgc cacaagtgga aaattccaca cctgacctta tgtgacgggt      120
cacagtcaaa acgcagggtgc acaacacaca gtttattcgg cgtccccaag ggaaaaaaga      180
ccctcccagc ccccttcagc tgcggtatat cttttccgcg cacaccaga ttcccccatg      240
caagcacgcc cacaaggggt aataaaatgg cacgtgtgca ggctggacac accaacggca      300
ggttccccac aatgccccca catgggggtca agacctacgt gcattactca ctgtgttttt      360
ttgcttattc tctgctctgt ggtgtaaaga tattgttgaa aatgtcaaaa aggcctgtag      420
ataccctgtg gagtaacaat gataagaaaa aggaagcatt tatgtttatc tatagcacag      480
aaaagtcaag ctgttggaga aactggacag tgggtgaagt gtgaaacgtc ttacagaaga      540
gtatggtggt ggaatgacca ccatatatga cctgaagaaa cagaaggata aactgttgaa      600
gttctatgct gaaagtgatg aacggaagtt aatgaaaaat aaaaaaacac tgcataaagc      660
taaaaatgaa gatctcgatc gtgtattgaa agagtggatc cgtcagcatc acagtgaaca      720
catgccactt aatggtacgc tgatcatgaa acaagcaaag atctgtcaca atgaactgaa      780
aattgaaggg aactgtgaat attcaacggg ctgggttgag aaatttaaga aaagacacgg      840
cattacattt ttaaagattt gtggtgataa agcatctgct gatcatgaag cagcggagaa      900
attcattgac gagtttgcca agatcatcgc tgatgaaaat ctgatgccag aacaagtcta      960
taatgctgat gaaacatcac cgttttgggtg ttattgcccc agaaagacac tgactacagc     1020
tgatgagaca gcccctacag gaattaagga tgccaaggac agaataactg tgctgggatg     1080
tgctaatagc gcaggcacgc ataagtgtaa acttgctgtg ataggcaaaa gcttgcgctc     1140
ttgctgtttt caaggagtga atttcttacc agtccattat tatgctaaca aaaaggcatg     1200
gatcaccagg gacatctttt ctgattgggt tcacaaacat tttgtaccag cggcttgtgc     1260
tactgcagg gaagctggac tggatgatga ctgcaagatt ttgttattcc ttgacaactg     1320
ttctgctcat cctccagctg aaattctcat caaaaataat gtttatgcca tgtactttcc     1380
cccaaagtgt acttcattaa ttcagccatg tgaccagggt atcttttagat caatgaagag     1440
taaataataa aacactttct tgaacagcat gctagcagca gtgaacagag gcgtgggtgt     1500

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ggaagggtttt caaaaggagt ttagcatgaa ggatgccgta tatgctgttg ccaacgcttg 1560
gaacacagtg actaaagaca cagttgtgca tgcctggcac aacctctggc ctgcgactgt 1620
gttcagtgat gatgatgaac caagtgggta ctttgaagga ttctgtatgt caagtgagaa 1680
aaaaatgatg tctgacctcc ttacatatgc aaaaaatata ctttcagagt ccgtcagtaa 1740
gctggaagaa gtggatatta aagacatttt taacatcgat aatgaggctc cagttgttca 1800
ttcattggaa gaagtggata tcaaagaagt cttccacatc gataaatgca ttaccagttg 1860
ttcaaccatc accggatggg ggaatagccg aaatggttct gaatcaaggc gattgtgatg 1920
atagtgatga tgaagatgat gacgttaaca ctgcagaaaa agcgcctata gatgacatgg 1980
tgaaaatgtg tgatgggctt attgaaggac tagagcagcg tgcattcata acagaacaag 2040
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ggcagatgac tccggaggaa acatttttaa aagccatcca gcagaatgcc tcctcatccc 2160
tagaggaccc acttctctgg cctcaactg cttctgatgt ttcttctcac ttagaaaaca 2220
aaaacaaaaa agcaaaaaaa atacagtgta cagtaacctt ttaatcaaaa cacagcatcg 2280
tagatggaga ctgaaagcct gccattgttt gttgttgctg ttgtttaaca gctgatacag 2340
gtattctggg gatgctactg tgctgcttag ttaccctgaa cacatttttt ttctactgta 2400
ttaatgggat gtcatatatt ttactgttaa gtacttatgt gtgaataagt gtaagaaaat 2460
gattgcttat cggtagcata taaattcaga gtcaggaatg atgggtgatgc caaacaacca 2520
cagattgtcc acatgggtgg ctgagatagt gacacctttg ctttctgatg gttcaatgta 2580
cacaaacttt gtttcatgca caaaattatt aaaaatattg tataaaatta ctttcaggct 2640
atgtgtataa ggtatatatg aaacataaat gaattttgtg tttagacttg ggtcccatcc 2700
ccaagatatc tcattatgta tatgcaaata ttccaaaatc tggaaaaaaa tccagaattc 2760
aaacacttct ggtcccaagc atttcggata agggatactc aacctg 2806

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<210> 152
<211> 234
<212> DNA
<213> Homo sapiens

```

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<220>
<221> repeat_region
<222> (1)..(234)
<223> zombi_a

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<400> 152
caggttgagc atcccaaatc cgaaaatccg aaatccgaaa tgctccaaaa tccgaaactt 60
tttgagcgcc gacatgacgc tcaaaggaaa tgctcattgg agcgttttgg atttcggatt 120
ttcagatttg ggatgctcaa ccggttaagta taatgcaaat attccaaaat ccaaaaatcc 180

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gaaatccgaa acacttctgg tcccaagcat ttgggataag ggataactcaa cctg

234

<210> 153
 <211> 468
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(468)
 <223> zombi_b

<220>
 <221> misc_feature
 <222> (145)..(147)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (149)..(149)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (153)..(154)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (157)..(157)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (159)..(159)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (166)..(166)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (169)..(169)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (177)..(177)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (182)..(182)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (187)..(187)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (198)..(198)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (200)..(200)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (210)..(210)
 <223> n is a, c, g or t

<400> 153
 cagggttgagc atccctaadc tgaaaatccg aaatccaaaa tgctccaaaa tctgaaactt 60
 tttgagcacc aacatgatgc cacaagtggg aaattccaca cctgacctca tgtgataggt 120
 cacagtcaaa ayacaatcaa gactnnncna gcnnctncng ttgctnttnc tgccagncaa 180
 cnacagnttg tgcacctngn tggcaragan actgacacat ttgctttctk atggttcagt 240
 gtacacaaac tttgtttcat gcacaaaatt atttaaaata ttgtataaaa ttaccttcag 300
 gctatgtgta taagggtgat atgaaacata aatgaatttc gtgttttagac ttgggtccca 360
 tccccagat atctcattat gtatatgcaa atattccaaa atccaaaaaa atctgaaatc 420
 caaaacactt ctggtcccaa gcatttcgga taagggatac tcaacctg 468

<210> 154
 <211> 333
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(333)
 <223> zombi_c

<400> 154
 cagggtccaca atcccttadc tacaattcta aaatccaaaa agctctgaaa actaaaagtt 60
 tttttataat ttgaaactca tttggcagca aaacctgacc tgaactgata tgaggctatt 120

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tatagtcttt atttatccca cttagtgtga atattcatat atttcactgc agaaatatta	180
atgtgtttga ttataggggtg ctgccccaga cccactggg ggtgttatat aatatatagt	240
atatgcacta tattaccttt ctaaaatcta aaaaattctg aattctgaaa cacatctggc	300
cccaaggatt tcagataagg gattgtggac ctg	333

<210> 155
 <211> 290
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(290)
 <223> mer35

<400> 155	
gatgtggcgt ttgagtggac acgggggaag aaacaagtaa tatgaataac atggtgagac	60
agaaagagtt gtggacagag ctgtgggaaa tatgagagat aaggagagag atactgaaaa	120
gagcgttaag agagatgaag ataggggtgtc tggcccatga aggccctcgt gaagagcaat	180
gctgaataga tgaatgaacc tcaatgccca gcagtgggtgg gatgaaaagg ggatcctgtg	240
cagaaaccac actacccatc agagaagcaa ctctgctcgt ttccccttga	290

<210> 156
 <211> 693
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(693)
 <223> mer39

<220>
 <221> misc_feature
 <222> (57)..(57)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (63)..(63)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (79)..(79)
 <223> n is a, c, g or t

<220>

<221> misc_feature
<222> (83)..(83)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (144)..(144)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (151)..(151)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (161)..(161)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (193)..(193)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (209)..(210)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (230)..(230)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (477)..(477)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (610)..(610)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (628)..(629)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (659)..(659)
<223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (683)..(685)
 <223> n is a, c, g or t

<400> 156
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 agnatatctt ttgttgaant atntggcttt ttgtccttgg ttcagttagc agctttggaa 120
 cagcttcaga gcggtaaagg tganggacag ncttttgta naatgttggg gcgctctaag 180
 cctcagaagc agncctcagr aaacagaann tcattttctg accttctctn gccctctaag 240
 cwtymcccg ctttctgtct trgrgctgsc cgtaaagaaa ttwtctgacc tatctcgtct 300
 gatwgtaggt cataagaccc tcattccaga aggggtcccg ccctataccc gggaggaagg 360
 aatgccgcac agakagacca agaagaatac gaacagacaa gccttgctgg gtttyccacac 420
 ycagtytatc accattagat catwccccct ttgtcyaatc acatttctgc gcagctntcc 480
 attcttcac aaatctaarc ataaaaatag agttttccct gagtmittgk gtcttcattt 540
 ctgaaggctc ycatgtcaca taaaactttg attaaataaa tctrttatgc ttttctcttg 600
 ctaacctrtn ttttattata ggagtgttng ccgtgaccct tatgatgggt agggaaggna 660
 tcacacctt ctgcccctac agnnntaatg ccc 693

<210> 157
 <211> 581
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(581)
 <223> mer39b

<220>
 <221> misc_feature
 <222> (321)..(321)
 <223> n is a, c, g or t

<400> 157
 tggttggggc tcagaaaaca ataccgcaaa atgaaggcct cagaagcaaa rtttttctct 60
 gaccttctcc cgccctcctg tctctcagtc ccatttctccc ctccccgagg ctagccatag 120
 aaactagaat ctctcttccc caaggcaggt catagaaacc agaacycctt tcctscaaag 180
 ccagccataa aacctaaaaa tattactcta actttccctc cacctttctg tgtaaaaact 240
 ggccataaag aaattatctg acctaccttg tttgattgta ggtcataaga ccccatctcc 300
 agagagggcc ccgcccata nccggaagga atgcgtgctc agagaagcca agaagaatct 360

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agacagacag gccttgctgg gtttccccac tcagctcatt agcattrgat catrgccttt 420
ttgtccagtc atatttctac acggctgtcc attctttgtt gaacctaaagc ataaaaatgg 480
acaattttcc ctgtatcttt gggtcttcat tctgaaggct cccgtgtata cagtgtatac 540
atgttarata aatgtatatg cttttctcca ttattctgct t 581

```

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<210> 158
<211> 554
<212> DNA
<213> Homo sapiens

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<220>
<221> repeat_region
<222> (1)..(554)
<223> mer41a

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<400> 158
tgtcagagac gtgtgaacca gagcaactcc atcttgaata ggagctgggt aaaatraggc 60
tgaracctac tgggctgcat tcccagacgg ttaaggcatt ctaagtcaca ggatgagata 120
ggaggtcggc acaagatata ggtcataaag accttgctga taaaacaggt tgcagtaaag 180
aagccggcya aaaccaccca aaaccaagat ggccacgaga gtgacctctg gtcgtcctca 240
ctgctacact cccaccagca ccatgacagt ttacaaatgc catggcaacg tcaggaagtt 300
accctatatg gtctaaaaag gggaggcatg aataatccac cccttgttta gcatatcatc 360
aagaaataac cataaaaatr ggcaaccagc agccctcggg gctgctctgt ctatggagta 420
gccattcttt tattccttta ctttcttaat aaacttgctt tcactttact ctrtggactc 480
gccctgaatt ctttcttgca cragatccaa gaaccctctc ttggggctctg gatcgggacc 540
cctttcttgt aaca 554

```

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<210> 159
<211> 635
<212> DNA
<213> Homo sapiens

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<220>
<221> repeat_region
<222> (1)..(635)
<223> mer41b

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<400> 159
tgtcagaggc gtttgaacca gagcaactcc atcttgaata ggcgctgggt aaaatraggc 60
tgaracctac tgggctgcat tcccagacgg ttaaggcatt ctaagtcaca ggatgagata 120
ggaggtcggc acaagatata ggtcataaag accttgctga taaaacaggt tgcagtaaag 180
aagccggcya aaaccaccca aaaccaagat ggccacgaga gtgacctctg gtcgtcctca 240

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ctgctcatta tatgytaatt ataatgcatt agcatgctaa aagacactcc caccagcacc 300
atgacagttt acaaatgccca tggcaacgtc aggaagttac cctatatggt ctaaaaaggg 360
gaggaaccct cagttccggg aattgcccgc ccctttcctk gaaaaytcat gaataatcca 420
ccccttgttt agcatataat caagaaataa ccataaaaat rggcaaccag cagccctcgg 480
ggctgctctg tctatggagt agccattctt ttattccttt actttcttaa taaacttgct 540
ttcactttac tctrtggact cgccctgaat tctttcttgc acragatcca agaaccctct 600
cttggggtct ggatcgggac ccctttcttg taaca 635

<210> 160
<211> 554
<212> DNA
<213> Homo sapiens

<220>
<221> repeat_region
<222> (1)..(554)
<223> mer41c

<400> 160
tgtcagaggc gttcgaacca gagcgactcc atcttgaatg agggctagga aaatgaggct 60
gagmcttgct gggctgcatt ccaggraagt caggcattcc taacctctag atgtttacgg 120
ttaagggAAC agattaataa tgtttactaa acagaccag acttgggagt gtccagatat 180
cccgatatct kgagaacaga ggcattccta atttckcttt aaagataata atattgattc 240
ttgcaaaaka tagtaattaa gcaaagatkr rcaatccttt gtcacaagcc cttgtagcag 300
agcacatctc ccccgtaatg ttctttggct ttgtttatcct atatataaac aagcattgta 360
cctaggggtg acgcsttcct cctsttgctt tcgggaacgc cctgctctgt ctatggagta 420
gccgttcttt cactmcttta ctttcttaat aaacttgctt tyactttaca ctgtggaatc 480
accctgaatt ctttcttgca tgagatccaa gaaccctctc ttggcggttg gatcaggacc 540
cctttcttgt aaca 554

<210> 161
<211> 557
<212> DNA
<213> Homo sapiens

<220>
<221> repeat_region
<222> (1)..(557)
<223> mer41d

<220>
<221> misc_feature
<222> (407)..(407)
<223> n is a, c, g or t

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<400> 161
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ttaaaactag caaggcacat tccttgccag tcacgacca tggcctaag atgtttacag 120
ttgaggaagc agcttgawaa tacctacaag gacacactcc tacaacaaca gaaagtccag 180
atgtcccaat acccataaca atatatgctt tcaagataat tatagtcag ctttgatgta 240
cttacgcact aaaatgtcaa agatagtttt ctttaaata atatamtaat aaattttgtc 300
atgctgtcag cccacccgca cgtaggcaca gcttagttta gtctttacat agacaagact 360
cctatataag aaaagtttaa gacagagatg gcgcgttcct ccgcctnctt tccggggacg 420
ccctactctg taatggagta gtttttaata aacttgctct tctcactgta ctccgcaact 480
cgccttgaat tccttcctgt gcgagatcca agaaccctct cttagggctt ggatcgggac 540
ccctttttct ggtaaca 557

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<210> 162
<211> 512
<212> DNA
<213> Homo sapiens

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<220>
<221> repeat_region
<222> (1)..(512)
<223> mer41e

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<400> 162
tgaaatagct gcataagcta tgggccgata agaccctgaa aaaccagggg gtggaccaag 60
ctggctaaga ctgactggac ccaacatggg gctggatttg acctagggtt cacctaggac 120
ctcattatat gctcattaac atactaaatc acacaccac cagcaccatg acagttccgg 180
gaacacccat atttgggtgta aaaatgggtg gcaccacagt tctgagaaat cttcaccttt 240
ttccaggaat cttcatgaat attccacccc ttggttaaag aaaccataa aggtagaagc 300
cccaaaccy mttggcgcaa ctwctctct tgagtatgcc cgactcccc tttcttgagt 360
gtgtactttt cgctttgcaa taaatctccg tactttcact attttctgac tcctccttga 420
attccttctc gcgatgggtg caagagcctg gacaccggct ggggtcgasg tcccaccggc 480
gtttggggac ctccccagc ccaccggtat ca 512

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<210> 163
<211> 3943
<212> DNA
<213> Homo sapiens

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<220>
<221> repeat_region
<222> (1)..(3943)

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<223> mer41i

<220>

<221> misc_feature

<222> (855)..(855)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (988)..(988)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (1113)..(1113)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (1197)..(1197)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (1465)..(1465)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (1473)..(1473)

<223> n is a, c, g or t

<220>

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<222> (2318)..(2323)

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 <223> mer44b

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 <223> n is a, c, g or t

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 caattataac aatatactgt aataaaagtt atgtgaatgt ggtctctctc tcaaaatatc 240
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 rggatggagc aggacagtgt gagatttcas ccatcatgct actcagaaca atacacaatt 600
 taaaacttat gaattgttta tttctggaat tttccattta atattttcag accacagttg 660

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<223> n is a, c, g or t

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<223> n is a, c, g or t

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atcacttttg cagtttgagg tatgacatca aaactagcat gaatttattt ttccttcttc 240
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acggcgcgga atttaaaact tatgaattgt ttatttctgn aattttcaat ttaatatattt 660
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<223> mer45

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<210> 168
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 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(1037)
 <223> mer45b

<220>
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 <222> (495)..(495)
 <223> n is a, c, g or t

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 <222> (324)..(324)
 <223> n is a, c, g or t

<220>
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 <223> n is a, c, g or t

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<223> mer45r

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<223> n is a, c, g or t

<220>

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<223> n is a, c, g or t

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<222> (645)..(645)

<223> n is a, c, g or t

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<221> misc_feature

<222> (651)..(651)

<223> n is a, c, g or t

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<222> (686)..(686)

<223> n is a, c, g or t

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<223> n is a, c, g or t

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<222> (745)..(745)

<223> n is a, c, g or t

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<222> (761)..(761)

<223> n is a, c, g or t

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<212> DNA
<213> Homo sapiens

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<223> mer48

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gtacaacgta gcagttacgt cagactggga cacttcctgt ttacaggaga ctataaaacc 240
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<210> 172
<211> 923
<212> DNA
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<223> mer49

<400> 172
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 <222> (1)..(660)
 <223> mer4a

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 aatctaccta tgacctggaa gccccgcctt cgagttgtcc cgcctttccg gaccgaacca 420
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 gctgtrcccc gaccaccttg ggcacatgtk gtcaggacct cctgaggctg tgtcacgggt 540
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 aatgrataaa gagaaaaata aaaaggtggg aaatgagaaa ctttgactc ctgggtggcc 240
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 aatagctaaa aaaaaataa aagagtgtg ggttgggtct tgatgtgga ccaagctcag 480
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atgtttctgt gatttcgtgt ttctttctcc cgggcattgc cttaaccttg gcaaaataaa 420

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465

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 aaaacagaga tcataagact gacaaaacag actntttgta gcaataagat accacgagga 240
 cgaagytctk atttttttat cttgccccaa ttcctatgta aggggtctag ggagtcgcgc 300
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 <223> n is a, c, g or t

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<210> 179
 <211> 6388
 <212> DNA
 <213> Homo sapiens

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 <223> mer4i

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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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<210> 185
 <211> 1755
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(1755)
 <223> mer52a

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ccagcgggag	ccgggaacag	gcgggagccc
		120
cgcccccttc	cgagttgggg	cgggagctcc
ccgggtgcag	ctgcagccgc	ccaaacgcag
		180
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ggagcaggca	ggagccccac	cctcccgggc
		240
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accaggcat	cyctgcgctc	tcgggggcct
		300
gggaaggccc	ccctgcccc	acaggcttgg
aagtgcctgc	tcccactgca	gctggcctct
		360
ccccgctccc	ggcggccgct	ccgcaggctc
agaagtgcct	gctcccgctg	cctggcctct
		420
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agcaaagtgt	yggccgagcc	cgggcgctgt
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cgcaaccg cgggtgtgt gcacgctcg ggcagcgctg acacgccagc cccctgccgc 540
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cggcagcagg aggcagacag gctcctgggc agaaaggggc ggggtccccg tgaaaccca 720
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<210> 186
<211> 1746
<212> DNA
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<223> mer52b

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gccccttccg agttggggcg ggagctcccc ggggtgcagct gcagccgccc aaaccgcagc 180

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atgaca						1746

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 <212> DNA
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<222> (1)..(1278)
 <223> mer52c

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 gagccccgcc ctcttgggcg gggctacagc caccctaaact gcggctgtgg atccgagcct 240
 ccctgtgctc ttgggggagc cgggagcagg caggatctgc cytcccgggt gcagctgcag 300
 ctgccscacc cgcggtgca gacctgggccc tcycactcca ggragcaggc aggagccagg 360
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 ggcctaccct cccaggcgca ggacctgggc gtctctgcag cctgcaccct tggggggccc 480
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 <223> mer53

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taaaaaatta	ttcattgttt	atctgaaatt	caaatttaac	tgggcatcct	gtatTTTtatc	180
tggaacccc						189

<210> 189
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 <212> DNA
 <213> Homo sapiens

<220>
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 <223> mer54

<400> 189						
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<210> 190
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 <212> DNA
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 <223> mer54b

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 <223> n is a, c, g or t

<220>
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 <222> (241)..(241)
 <223> n is a, c, g or t

<220>
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 <223> n is a, c, g or t

<220>
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 <223> n is a, c, g or t

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 ccaaattggct caagccggtg gccagagata aaaacttgga ggcattctctc ccgcctggca 180
 gactgggctc cccactttcc cgccgcttcc tttaaaaaga ccattcaggc atttgcccgc 240
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 tctcaaaaca 790

<210> 191
 <211> 398
 <212> DNA
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<223> mer57a

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tacgtcactt tcctttttct gtccataaat cttctaccac atggctgcac tggagtctct    300
gaacctactc tggttctggg ggctgcccga ttcgcgaatc gttctttgct caattaaact    360
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<210> 192
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<212> DNA
<213> Homo sapiens

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<223> n is a, c, g or t

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gcgccctgtaa caatagctga gtcttggcca atcccagcgg ccatacttca accactcana    180
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<210> 193
<211> 7488
<212> DNA
<213> Homo sapiens

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<223> mer57i

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<223> n is a, c, g or t

<220>
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<223> n is a, c, g or t

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<223> n is a, c, g or t

<220>
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<223> n is a, c, g or t

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<222> (1021)..(1021)
<223> n is a, c, g or t

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<223> n is a, c, g or t

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<223> n is a, c, g or t

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 <223> n is a, c, g or t

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tgagaactgc agaactctcg gcacagaaca actccatcca aacccttgca ctaagagact    60
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cccccttaa agtgcctgcc tgagaaagct caacgctgcc aggagaattt actgtttgtt    180
ctagccaaca cctgatgata ggcccctgat ctccctttct tagagcattt actaaaaagg    240
gcttacaatt gtgaatcctt cctctgtccc tttagatat gtatgtatct cctacaactc    300
aggagtgtct ttctcaagga cctgagagcc attcctttga aatgtaatca tcgagaagga    360
tagggcctct gtctcccagt ctctgtggga ggatagaatc ctaactttga taancgccag    420
ctagcagaca cagctggcct aatcacattg aactgacca gccctttgta atttttcact    480
tccctgactc tgctgagccc ccacgtnccc tctcccnct ccctcattct ccctttaaaa    540
cgcccagtca cctctgcaca aattggaatg garctcagct ctttccccta ctgccagtag    600
ttactgaata aaatccgttt tcaccgcttt aactagtgtc cggctttgtt tatctttgac    660
a                                                                    661

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<210> 214
<211> 710
<212> DNA
<213> Homo sapiens

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<223> mer67c

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<220>
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<223> n is a, c, g or t

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<400> 214
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cctttctctg tccctttgaa atgtatgtaa atctttttta aagctaaata agcctcttgc    180
cagctttacg acccaggaat gtctttctca aggacctggg agccatctct ttgaaatgta    240
awcatcaagg aagatagtac ccctatctcc cagtttctgt gggagggtag gagcctaact    300
tcagtgggca ccttgctcca agttgcaaaa ctacctctg tcataaagat atgagaagtt    360
tatttttcct ttggataaag ccaattagct aacacagatg gccaccccaa ttaccaggtg    420
aatttaggat gaactatgtg tgacaaatgg tgctgtcaag tcctcttact tgaggactag    480
ttattgttta tcttgagaac atgtatgtaa tgggctgtat ctgctcggct atataaaagg    540
gtgagatttc tttctgtstt tgcaatctct tagcagattg cctgtgatgc gcatcacatt    600

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ctggtttaat gcttattcaa taataaaacg tgttttcttt ctcttctacc tttgtggaga 660
 ggttttctgg gttgggagra gattttgttt ttaattatat ttccccaaca 710

<210> 215
 <211> 514
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(514)
 <223> mer67d

<220>
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 <222> (279)..(279)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (397)..(397)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (412)..(412)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (427)..(427)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (488)..(489)
 <223> n is a, c, g or t

<400> 215
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 aaattctttc tctgcccctt tgagatgtaa atcttctaca acccaggaat gtcttttctca 180
 aggacctggg agccatccct ttgaaatata atcawggaag gacatagggt ccctgtctcc 240
 cagtctctgt ggaagggtag gagcctaact ttgataagna gcaattwgca aacacagatg 300
 gcctaatacac attgaccaac ctccccacca acgtcctcca gtacttttcc actagctcac 360
 cccagcgctt aaaaatccac ctgccttttg tttcagngga gttgagttca anctctaacc 420
 cctattncaa tagtctctgt cttttattgc aatagtcctg aatgaagtct tccttgccctg 480

tttaacannt ttccggtgca atttttcttt taca

514

<210> 216
 <211> 563
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(563)
 <223> mer68a

<400> 216
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 caaggttggc ccttggtgctgg catctgggaa cttggatttc gggaggggttc ccaccattcc 120
 cwkaactgat aagagtggct cactgtgcct aaactgtttg tgcaaacaat atggtttatg 180
 ctgaacacct gctttccttc tgggagtctg gaattttggt acgtgctagg cagaggggtgc 240
 ctacgtgacc agcccccart aaaaaccctg ggcactgagt ctctaataag cttccctggt 300
 agacaacatt tcacatgtgt tgtcacaact cgttgctggg ggaattaagc gtgtcctgtg 360
 tgactccact gggagaggac tcttggaagc ttgcgcctgg tttcctccgg acttcgcccc 420
 atgcgccttt tccctttgct gatcttgctt tgtatccttt cgctgtaata aatcatagcc 480
 gtgagtatga ctatatgctg agtcctgtga gtcctcctag cgaatcaccg aacctggggg 540
 tgggtcttggg aaccctaac aca 563

<210> 217
 <211> 568
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(568)
 <223> mer68b

<220>
 <221> misc_feature
 <222> (461)..(461)
 <223> n is a, c, g or t

<400> 217
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 caaggttggc ccttggtgctgg cgtctgggaa cttggctttt gagaggggtcc ccaccgttcc 120
 cttaactgat aagagtggct cactgtgcct agactgtttg tgcaaacaat gtggtttatg 180
 ctgaacacct gctttccttc tgggagtctg gaattttggt acatgctagg cagagkgtgc 240

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ctacgtgacc agcccccaat aaaaaccttg ggcgctgagt ctctaattggg cttccctggc 300
 agaaacattg cacacacgtt gctgcatttt attgctgagg gaagtaagtg ygttctgtgt 360
 gacycctctg ggagaggacm ywkgaagcc tgcgcatgga ttcctccaga ctccgcctga 420
 tgtgtctttt ccctttgctg atcttgccgt gtatccttac nrtgtcgctg taataaatct 480
 tagccatgag tataactgta tgctgagtc cgtgagtcct tctagcgaat caccgaacgt 540
 gggggtgggtc ttgggaaccc ctaacaca 568

<210> 218
 <211> 179
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(179)
 <223> mer69a

<400> 218
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 agggcccttc caaggccctg tacctaattt tgtattcgta attttgtatt ctttttctta 120
 aagagggccc cccaaattgt ataagcttca ggccccacaa aacctggatc tgcccctgg 179

<210> 219
 <211> 1501
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(1501)
 <223> mer69b

<220>
 <221> misc_feature
 <222> (800)..(816)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (743)..(743)
 <223> n is a, c, g or t

<400> 219
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 ggccccttcc aaggccctgg gaggggccct agcaatgtgt tcacatgggtc atatgttttt 120
 gtaaaatttg caaaagtaag atattttaac cacaattggg taagactgct gtctctttcc 180
 actccgactt cccctccatc acacttcccc tcatgtcggg tggatttggg gtggccgtgg 240

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gcatttttgg gatctggcta agggaaagtt gagttgggga tacatttagt ttgggttttag 300
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cccgttatag gaatggcttc caggaayatt cctactgccc actgtgccga ctcacccagc 420
gtcgtgacmt gaggcacagg accggagrtc gtatcgcgat atgaacgtgt cctacggcac 480
ctggcaccgg aagtatgcgg gtagtggagg agaaacaagg tttgaaatgt acagagccag 540
aagctagtct gtggaaaatt cttccaatca tcagacgtgt aaaattgtaa gcggaggatt 600
cggttctcat cgatgcctag ycagagcaga agttctctcc tgtcagaaat atactcgata 660
atgcagcgta tacaattata aatgcamcat gcatttattt gcatttttgg aagggaatca 720
tgcgaaatag aatttatcag aantccttgt ttgtagggca cagatctrta gcagtactac 780
aaacagtgag cacatctgtn nnnnnnnnnn nnnnnnttat taamtttctt gctgatatga 840
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ccatgctaga ggaaagactg aattatcttt ctattctctc tatagaaaat attacaaaat 1200
cgttgtcata tgaagaggcg atcaaagagt atgcagccaa aaaatgtagg gaaaaartat 1260
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gatgtttgtg gtatttgtca acttttttaa atttgtaatt tgttgcgatt tcttttctca 1380
ttctaaataa atattcactt ttgtacctaa ttttgtattc gtaattttgt attctttttc 1440
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g 1501

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<210> 220
<211> 597
<212> DNA
<213> Homo sapiens

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<220>
<221> repeat_region
<222> (1)..(597)
<223> mer70a

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<222> (99)..(99)
<223> n is a, c, g or t

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 <222> (143)..(143)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (159)..(159)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (437)..(437)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (460)..(460)
 <223> n is a, c, g or t

<400> 220
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 tttatgtccw ccatgcactg gtnacctcgc ttacccgant ccggtgagac agaacgcgcg 180
 cacacacaag ttacgcgaag cgggtttatt acttacagac aggcagcaag ggacaacaga 240
 agcctaggat tcagggtrag yymgtcyccc aaggctcagg aaagctgccc agggcggatg 300
 gaatcttgwc tgcgcgtgcc ccacttgcac tgcagctgag ggrccccgga aggcaccccg 360
 ccctgggttt tatactcag gaacmacatg acacgctggg ctaaagcggt gaaggacatc 420
 ctgtttcyag gagaganwgg aacagagccc aggctgttcn ggccagttcc tccctatctc 480
 aggatgttgc attcccagca cattctacag ttattcttga gaactacaag caagaaagag 540
 gggagwactg ggtcgggtcca aggccacctg grgaactgtc ctgcagagct atccgag 597

<210> 221
 <211> 665
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(665)
 <223> mer70b

<220>
 <221> misc_feature
 <222> (99)..(99)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (143)..(143)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (159)..(159)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (437)..(437)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (460)..(460)
 <223> n is a, c, g or t

<400> 221
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 tttatgtccw ccatgcactg gtnacctcgc ttacccgant ccggtgagac agaacgcgcg 180
 cacacacaag ttacgcgaag cgggtttatt acttacagac aggcagcaag ggacaacaga 240
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 gaatcttgwc tgcgcgtgcc ccacttgac tgcagctgag ggrccccgga aggcaccccg 360
 ccctgggttt tatactcag gaacmacatg acacgctggg ctaaagcgtt gaaggacatc 420
 ctgtttcyag gagaganwgg aacagagccc aggctgttcn ggccagttcc tccctaamtc 480
 aagatrttac attccctagg agggkcaaga acaaggccaa sctgttcgga gcagttcctc 540
 cctatctcag gatgttgcat tcccagcaca ttctacagtt attcttgaga actacaagca 600
 agaaagaggg gagwactggg tcggtccaag gccacctggr gaactgtcct gcagagctat 660
 ccgag 665

<210> 222
 <211> 711
 <212> DNA
 <213> Homo sapiens

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 <222> (1)..(711)
 <223> mer72

<220>
 <221> misc_feature

<222> (20)..(21)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (23)..(23)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (28)..(28)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (249)..(255)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (309)..(309)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (385)..(385)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (474)..(474)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (681)..(681)
 <223> n is a, c, g or t

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 gttcycggcc gkgacgggat ggaggggtca gacacacctc gttrtacccc tcccttrcta 180
 accatsaykr ggcttgcytc cctaargrct aaacagaaac cagcyccttc gaaagactcc 240
 agcactgrnn nnnntcctt tccttcctgr taagagacca ccraccacgg agwgkttctg 300
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 cagagggccg aaaactccac cctcngatca tgctaacact gccakttttt gwacatgggw 420
 cccatgaaga ggcaggaarc tcaattgtgc acgcgtgtgt ttctccyttc acgnatattc 480

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ctgttccctt tgccyctccc tcgaaatgtc tgtttctggc ttctggccgg aggctacgct	600
tcccagcctg tcagaatggc cgccctgcag gctgcaaccc tttatgagaa ataaagctct	660
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<210> 223
 <211> 636
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(636)
 <223> mer73

<220>
 <221> misc_feature
 <222> (108)..(108)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (290)..(290)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (472)..(472)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (614)..(614)
 <223> n is a, c, g or t

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cccacagctg ctgaccatga taaaacctaa tgggtcaacgc cagagtcatg taaataagtt	240
tcctccttct ggcattgttt ctttaacta gccaatccac aacccccgtn ggaaagcctg	300
agggataatg cccatggacc ttaataaagg catactcccg cagctgctct ctccctccct	360
acccactggt tgagctccct gccgcctcca gacttcccat cggcctcccg tcggcacccc	420
taacctctct gggatctgta agtaatatat ttcttctgtt tcatgcattt tngtttact	480
tgccctactg tgtctcmct gacacacaca ctcgaaccta actttccccc gggtcagggc	540

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aattagaaag aaancataac gataaaaatc acaaca 636

<210> 224
<211> 624
<212> DNA
<213> Homo sapiens

<220>
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<222> (1)..(624)
<223> mer74

<220>
<221> misc_feature
<222> (314)..(314)
<223> n is a, c, g or t

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cacggggagc cccacgggga agcaccgggg tcggtcagga ggcagaagga gcgacgggaa 180
aacgtrggca agagccttta ttgtggtttc catgggaagg aatgrgcgag gcagggtaag 240
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aaaaaagcat gattaataca akytgctctg tgatgaacgg atgccaaata gwcgaataca 600
gaatctaaga aaacacagaa caca 624

<210> 225
<211> 558
<212> DNA
<213> Homo sapiens

<220>
<221> repeat_region
<222> (1)..(558)
<223> mer74a

<400> 225
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cctgggagcg cgcctttcat atgcaaacca accaatccag agccacacacc cccaaccacc 180

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tcctttatcg ggctctcaca ctctgggcca ctatccccct gccctaataca ccccagggcc	240
aggtaccaga caactagggga cagcccctat accccagagc ccgctgaaat tattcaaact	300
agccaatcct aagcctgctt accctgcctt gccattcct tcccatggaa accacaataa	360
aggctcttgc ccacgttttc ccgtcgctcc ctctgcctcc tgaccgacc tggtgcttcc	420
ccgtgtggcc ccccggtggcg tggcgtgccc ctttctcttg ggawctgtga gtaacaaact	480
atcttttcaa tggcagtcgt ctctgatct gttggcctta ccatacctga ataataataa	540
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<210> 226
 <211> 622
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(622)
 <223> mer74b

<220>
 <221> misc_feature
 <222> (51)..(51)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (54)..(54)
 <223> n is a, c, g or t

<400> 226	
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taaccatggt ttttattttc tgtattcttg atgctttgac atcttggggc cttgctgacc	120
ccggagagac tgcccctccc agggctagcc aattcctaga gatagcaaag gactcgcctg	180
ggagcgcgcc tttcatatgc aaaccaacca atccaaagcc cataccccca accacctcct	240
ttatcgggct ctcacactcc aggccaatat tccccctgcc ctaaatacacc ccagggccag	300
gtaccaggca actagagacc acccctgtac ccagagccc gccagaatta ttcaaactag	360
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gtggggctct gcgtggcgtg gcgtgcccc ttctcttggg aactgtgaga ataacaaact	540
atcttttcaa tggcagtcgt ctctgatct gttggcctta ccatacctsa ataaaataaa	600
atcccaggta cattttaaaa ca	622

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<210> 227
 <211> 514
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(514)
 <223> mer75

<220>
 <221> misc_feature
 <222> (86)..(86)
 <223> n is a, c, g or t

<400> 227
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 tatcgacttt ggaaacaaaa gacatcgttc ttttatagc attctgtttt tagtagtggt 180
 atttccattt acaaaatata gtaattctcg attgctgaaa atgtcaaadc ctagaaaacg 240
 tagcattcct acacgtgatg ttaacatcgt tctcgaacag ttgttggccg aagattcatt 300
 tgatgaatcc gattttttccg aaatagacga ttctggtgat tcagatgatt ctgatgttag 360
 ttctgttttag aaataactcc aagaacagtt tttatatttt attttcacat tgaaaatcag 420
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 agctgcactt ttttttttct aaacgggaaa aggg 514

<210> 228
 <211> 688
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(688)
 <223> mer76

<220>
 <221> misc_feature
 <222> (336)..(336)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (387)..(387)
 <223> n is a, c, g or t

<220>
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<223> n is a, c, g or t

<220>

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<222> (514)..(514)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (636)..(636)

<223> n is a, c, g or t

<400> 228

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tggtgcacag ccagtgcatt gcagtctctg aaggaggtg cagtcaagga ctcaggcccc	180
cctggccggc cacgctctta cacatatctg cattcctagc ccaggcgcct ccgttcggag	240
gcctctttat tcggggcctt ctgcagaggt cttcctcagg cgcctctgcc gagacctctt	300
tatgaggggt ggaagcggga gccttgaaga catttntctc cactctgact cagtactcag	360
tgcttttcca ctctatccc ttccctntcc tcnctccat gaccacggg tccataaaac	420
tgcaggagcc ttttgttcag ggctccctca acagtgagat gaccccatg tctgtgccga	480
tccacctgac ccttgaccgg tgccatttcc atngggaaaa atggaacatg gggagtcggt	540
actttctctg gttttagcct cttgcttata ctatcgaagk aagtgattaa agatttgact	600
gttactttca ttttggttg ttgccttaat cggctnctct gacaccggc agctcagctc	660
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<210> 229

<211> 650

<212> DNA

<213> Homo sapiens

<220>

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<222> (1)..(650)

<223> mer77

<220>

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<222> (166)..(166)

<223> n is a, c, g or t

<220>

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<222> (170)..(170)

<223> n is a, c, g or t

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 tgaaaggata cagattaaag tcagcaaagg graaaggcac ataggncagn gtccaagaga 180
 rmcaggcacg rgcttccagt tgtcctctcc cggcggagtc gtrcgggcag cgcttaattc 240
 tcccgcaac grtgtgtgac agcacgcatg aagtattgcc aaccagggaa gctcaccgga 300
 gccttggtgt ccagagtttt trttgggggt cggtanata ggcattgntg accccgcagc 360
 atggctgacc ttggtcttct caggcttgag ccncccaagc atggctgacc tnagttactc 420
 agtctycagc ccctccagar gtcaryacc gtgtagccta aggccccac cataaatcac 480
 attgtagca trractgtcc ggtatggccc aaggccytgc cagataaaca aagayactyt 540
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<212> DNA
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<223> mer8

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<223> n is a, c, g or t

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ccatatatac gggtttcgca tcccgcgaat actgtatttt caatccgcgt ttgattgaaa 180
aaaatccgcg tataagtgga cccacgcagt tcaaaccctg gttgttcaag ggtcaactg 239

<210> 231
<211> 508
<212> DNA
<213> Homo sapiens

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<222> (1)..(508)
<223> mer80

<220>
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<222> (441)..(441)
<223> n is a, c, g or t

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aaccaattat attgaaatac agttatcaaa atattaaaaa accaaatttg tgatatagta 180
atatatgtgc ttctttatta atgcattaaa taacaagatc tagcggcggg tctaataact 240
accgtaattt cgaagtagtg atgagcataa atgatatttt gagatatctg caacaactgt 300
aatgtgatat gaaaatatct gtgatttcta ttggtgacaa agtcacaggt actgctaata 360
ctactgtggg ttgttgccta cattcataat tgaaggaaat gctaaatttc agttagaggt 420

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tagtgaaaat aaagatgtaa nttttttccc catccaagtt cacggacccc ctgaattcta 480
tccatagact ccagggttaag aaccctg 508

<210> 232
<211> 114
<212> DNA
<213> Homo sapiens

<220>
<221> repeat_region
<222> (1)..(114)
<223> mer81

<400> 232
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<210> 233
<211> 653
<212> DNA
<213> Homo sapiens

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<222> (1)..(653)
<223> mer82

<220>
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<222> (186)..(187)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (544)..(544)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (557)..(557)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (567)..(567)
<223> n is a, c, g or t

<400> 233
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agcgaatact gaaccatcgc tcctagagga aatacagagt taggttcctg caagcctctg 120
gtcacaacat tttcatcaac cgatcaatat ataacyttgt tttatgtgtg tttctgttta 180

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aagacnctt atttaataata tattgttgat ttattaacac tgaactcaca gccaacagca	240
ctataactca tgcctgaatg aagcttatct aacacacata ttttctccat aaggtacatc	300
acagccttct tgtgcttagg aacaccagac agcacttcag cactatgctc ggggccattt	360
taaacggcga aatcaccaac aaaaagcaca aaaatgtgaa aaacgtggca ctaaataagac	420
ctcgaaaagg acgcttggtt acggtatgag agctgaaaca agaaggcaga gcgtcgcctt	480
gttcgacctc agctgggaac gtgcacgtcg ggcgactcga atttttcgct gctctgcgca	540
tgtntgcaaa tgaccngaa agtgctncaa gtattgattt tggggttaca aataaatttt	600
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 <212> DNA
 <213> Homo sapiens

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 <223> mer83

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gcaaataact cacaatcttc ctgcgcccga ctattatcaa acacctcagc tgacagaaaa	180
atgcaagtta gctcmctgca accttggcat tatcagtact gcacgcagcm ctctgcagcc	240
caagaaccat cctataaaat ctccagcaag cctttgtctc cttgcagtca gctcctctct	300
tgctgggtctg cctgttgctt ccttgcaaca tttttcata ctttctctaa taaatctgcc	360
tttctttacc tacaactgtc ttggtaaatt atttttacct cccgcgccac cggccccaga	420
tagtcgccgc tccccacgac a	441

<210> 235
 <211> 378
 <212> DNA
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<220>
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 <222> (1)..(378)
 <223> mer83b

<400> 235 tgtggagtcc tgataagtaa gcaacaatga ggaagggggc ccaggtgggg gagggcccca	60
ggtggggaag aacaatgaac aattgttctg agagacggct aatcaciaac aaccgcggg	120

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cacaacgacc tcgttccgca tgtagcccca gcagcatgac ctcattctgc acgtagcccc 180
ctccagcacg accctataaa acttccctcc agcccctgcc tctttgcaga cagccccttc 240
tctgctgtgc tgcccgttgc aaccttgcaa cgtattttca tactttctct aataaatctg 300
cctttcttta cctacaactg tcttggtaaa ttcctttacc gcctgcgaca ctggccccag 360
atagttgcac ccgtgaca 378

<210> 236
<211> 373
<212> DNA
<213> Homo sapiens

<220>
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<222> (1)..(373)
<223> mer83c

<400> 236
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caattgttct gagagacggc taatcacaga caaccgctg gcacaacatc ctgttcccaa 120
atacctcgct ccgcatgtag cccagcagc acgacctcat tctgcacgta gccccctcca 180
gtacaaccct ataaaacttc cctccagccc ctgcctcttt gcagacagcc ctttctctgc 240
tgtgctgccc attgcaccct tgcaacgtat ctttgtactt tctctaataa atctgccttt 300
ctttacctat gactgtcttg gtaaattctt ttactgtccg cgatgccggc cccagccagt 360
cgcacccgcg aca 373

<210> 237
<211> 508
<212> DNA
<213> Homo sapiens

<220>
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<222> (1)..(508)
<223> mer84

<220>
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<222> (133)..(134)
<223> n is a, c, g or t

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atctggggaa tttagaagta attagacttc cctattatct aaagcaggca tctggttcca 120
ggcctctttc ccnaaaaaac ttataagtaa ctagaatttc tatacgtctc cggaatgcat 180
gcatgctgaa actcactgtg caacccttgc tgacatcaag gcaccaaatt gtctacaaat 240

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gtaatcattt accatgacct acgtggctaa tatgggtccaa attaccctta agctccccgct	300
ttaaggtcca taaatgctcc taaggaaaaa tccaccgcgg cgcgctcagt cctctcttgc	360
tgaggcgccc cgctgcactc tkctgcagcg ttctttctgt ctaataaaac tttccttttt	420
caaacctata ctgttgtcgg taaattcttt ttaccaaccc acgagtcgac cacttcccga	480
tgccggggct ctgacacctc gcctggca	508

<210> 238
 <211> 140
 <212> DNA
 <213> Homo sapiens

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 <221> repeat_region
 <222> (1)..(140)
 <223> mer85

<400> 238	
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ggcgaTGacc ttgagcagta ggatataaat aactcccaca tgcttagcgt tccaataatg	120
gaacactagg cataaatggg	140

<210> 239
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 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(206)
 <223> mer86

<400> 239	
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acctagaaat gctggataaa atataacaaa catcctttta aatgcatagc tgagctcgca	120
agaaagtaag ggaaatcccc agggggccaaa aatgaagaga gaactgaaaa ccagagcggt	180
gagtamgtga gctgacgctg tggctg	206

<210> 240
 <211> 541
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(541)
 <223> mer87

<220>
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 <222> (347)..(347)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (304)..(394)
 <223> n is a, c, g or t

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 aggaatttag tttatagttc aactttaaaa aagatggtaa cagtcccttt cccaaactaa 180
 cccccgagga gataaggaaa gtatacacac aaataacaat gttatgttaa agatttatag 240
 gaacattgtg acctgacctt ggacaaagaa gttttgmcaa ctctcggac tcttgctggc 300
 gccagatgt ctgtggtcat cggtcacctc ctaaccccaa taccncnctt sttccccttc 360
 ccctagcata aaaagaagcc taagattyat gctnatttga gatggttctt taggacgcta 420
 gtctgccatc ttctcggttt gctggctctc cgaataaagt cactttcctt gccacaacac 480
 ctctgtctctt gacttactgg ctgtcgwgcg gtgagcagta ccagctttgg attcagttac 540
 a 541

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 <212> DNA
 <213> Homo sapiens

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 <223> 1tr36

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 aaccttttac ctccccctca ccagacactc cctacagggc aagttcatct aactatgtgc 180
 ttagaagctc cagagcggaa ctctctccca ccaggagatt gcctcgagag ataacagctc 240
 atttacaacc caaagtatgc ccgctacgaa actctctccc acctggagag ttttgccac 300
 ytttacaacc tagttctgcc cacgaaggcg ccagcagtca ccagctcaac cgcttggtag 360
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 tcatgccaaag ccccttttta aaagyscctg ctttctgctc caaaagcgaa gcggtaccct 480
 taaggcagga agcctgtact ttttccccct aagctagctt tggaataaaa agtcactttc 540

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tttataaccag acctcgctct tgtaattgg actctgcaag cggtgagcaa ctgaacctgc 600
gtttcagtta ca 612

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<211> 426
<212> DNA
<213> Homo sapiens

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<222> (1)..(426)
<223> ltr37a

<220>
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<222> (173)..(173)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (231)..(231)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (265)..(265)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (159)..(159)
<223> n is a, c, g or t

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trgaggttca attgacttcc ttccccact gtggaaaaag ccagttttgc ntcyatttgc 240
aaattcattt caatattcct gattncctat aaatgtgtst gttctttgaa ttctcctttg 300
aaccggtttrt aacatcttac tggttccctc attaattaat gagttaaata aaatctttaa 360
cacgtgttca ttttatatyt gtatgagagt catgatttta ctttttttga aaattatcct 420
ttaaca 426

<210> 243
<211> 468
<212> DNA
<213> Homo sapiens

<220>
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 <222> (1)..(458)
 <223> 1tr37b

<220>
 <221> misc_feature
 <222> (131)..(131)
 <223> n is a, c, g or t

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 gaatgtacct ntgttgactt tgctatttac tatttgatta gggcccagat actatgaagt 180
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 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(556)
 <223> 1tr38

<400> 244
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 agttagccca ccactaccgg gctgaagtca ggatgatgca aaccagacct ccagacgggc 300
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<220>
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 <222> (415)..(415)
 <223> n is a, c, g or t

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 ctccanatcc ctccctttct caccgtatat actcccttca catttatcta actgtatgct 180
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 <222> (1)..(794)
 <223> 1tr39

<220>
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 <222> (36)..(36)
 <223> n is a, c, g or t

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 agtaaattgag caacttgata agcaagaagg taatagtagc ttaaaacaat agccaaggaa 180
 gtttagagtca cgrgatgttt gggtccccta tagaaactaa agataacatc ttaacatatg 240
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 <221> repeat_region
 <222> (1)..(588)
 <223> 1tr4

<400> 247
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<213> Homo sapiens

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<222> (176)..(176)
<223> n is a, c, g or t

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<220>
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<222> (243)..(243)
<223> n is a, c, g or t

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<220>
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<222> (299)..(299)
<223> n is a, c, g or t

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<220>
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<222> (301)..(301)
<223> n is a, c, g or t

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<220>
<221> misc_feature
<222> (343)..(343)
<223> n is a, c, g or t

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<400> 248
tgttgggaga caattctcca tgggtctctc gcatttctgc acgtcttctg agcagaggca 60

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ctgactgcct ttgttctgga ctatcttttc aaggatgttt gtatagcgaa cagccttgga 120
agatagagat agtgtctccc tctggagcaa agggcagggt tgcttactag ccttgnaara 180
taaagataat gtctccctcc ggggcaaagg gcaggcatgc ttactgcca ttataaaaga 240
ttnggggttc ctaagctcgg gggtcctcws ctgtracgca aaccactgc gtgtgcagna 300
ntcatctggs ccccttcgca tcgccctcgt gggacttggg ggncaagggg aactgacgca 360
aacatgatgc tcatgctgcc tgctgtgctg tgartaataa agtcctttgt ctctgacca 420
ggagtctcgt gtcttctgcc agcatccatg aaactgtggc aggctaactt gttagcttgc 480
aagtagggta aaatctcaga cccttcacag ttcttgaca 519

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<210> 249
<211> 462
<212> DNA
<213> Homo sapiens

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<220>
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<222> (1)..(462)
<223> ltr40b

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<400> 249
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tgactgcctt ttttctgga ctatcttttc aaggatgttt gtatagcgaa caaccttgga 120
agatagagat aatgtctccc tctggagcaa agggcaggct tgcttactgc ccattataaa 180
agattcgggt tccctaagct caggggttcct ctctgtaac gcaaccact gcgtgcgag 240
catccayctg ggcctctycg cgtcgccct gtgggamtg gggggcaagg ggaactgacg 300
caaatgctga tgctcwtgct gcctgctgtg ctgtgagtaa taaagtcctt tgtctctgac 360
ccaggagtct catgtcttct gccagcatcc atgaaactgt ggcaggctaa cttgttagct 420
tgcaagtagg gtaaaatctc agacccttca cagttcttga ca 462

```

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<210> 250
<211> 773
<212> DNA
<213> Homo sapiens

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<220>
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<222> (1)..(773)
<223> ltr41

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<220>
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<222> (189)..(189)
<223> n is a, c, g or t

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<220>
 <221> misc_feature
 <222> (332)..(332)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (378)..(378)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (399)..(399)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (446)..(446)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (456)..(456)
 <223> n is a, c, g or t

<400> 250
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 tgtcagtaga gggcactgga gagacattgc aggaggaagg ggcttttctt cctgggttcct 180
 gtgtgctgnt gtgctwggca tgctcacttg gcaggttcct gtagctcagg cytacagctt 240
 ctccagtgcc cagttcctgc agcgcacaca gcttctctag cacccggttc ctgcagcatg 300
 tgcmccttct caagcatgca gctctggcag tntaatcagc agtgtccagc agcttcccc 360
 agcaccatc actcaggngg tttcacagtg ggggtgcctnt ggtgagatac ctccctgtga 420
 acagctttcc ctgacaccct agaggntgga tttccnagaa gttccacagg gtrgatttcc 480
 agcaagttct gttagtgcag taccacagta acttctctgc catccagtaa gccatagctg 540
 tgcctttgtc caacaagatc tggatctcag ccctgggggg aaggttctct cctgggtgct 600
 cttctctcagc cctaggggta gtggctgctc cttatatctg ctattcctat attctttaga 660
 gttctcttta cctcttasta gttaattccc tgttatagtt aatatttata ttaaactttt 720
 cctgttcaaa ttactgtgtg gtttctstct cctgattgga ccagacata tag 773

<210> 251
 <211> 495
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(495)
 <223> ltr42

<220>
 <221> misc_feature
 <222> (16)..(16)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (58)..(58)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (414)..(414)
 <223> n is a, c, g or t

<400> 251
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 ccttgaccac tctgtgaccc agccagctgc aggtttttcc ctgcaggctt gaacccaagc 120
 cagggccttg aacattccca ggcactgata aaggatttta ggttgttgcc caaaacactg 180
 aaagaaacta gccccggccc tgagccaaat tccttaaacc ctcatataaa ctccataccc 240
 tgacccccctc gctgcagaca tacctaggtg gaacatccct tttctctcac tgtccatctt 300
 gaggactgct gcagcccact ctgtaggtaa gttcccctaa taaatgcttt ggactgatca 360
 ccctggcatt tagtgcttct ttctttggaa tcccaactgg ccccatctca gganggtttg 420
 gggyaactcc ttgtgggaac tcccctgcca ctgcttttgg ggcgactcca gccacagggt 480
 cagcgggatr aaaca 495

<210> 252
 <211> 602
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(602)
 <223> ltr43

<400> 252
 tgaggcagga taggtagtca aggaagtaac catgtccttg ggacgcagca accgtggtga 60
 ccatacagtc aacacaataa gccccagcat tcgcattgta gtcgagctca ttcaagcaaa 120
 gctatcttca gtagggamtt tcccctgtag agagcatgcg cattttgatt ttacctgtcc 180

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tcaaactgac cctttgctca ttataatagt aaaaaacaca acccctgggt ggagatttaa	240
gatgctaata agacatgcga tgtatgaaca agcatgtaca gctactgcgc atgtgcaccc	300
agaggaccac ccagaacatg cttactagta acacctcttt cccacctcct tatgaataat	360
catgtaagac tcccataaag ggagtctccc yagcgccart cwwtgctgtc tcatccttat	420
gagcagcccg ccctgaattc tctctctcag ggtgtactgt ctattctgca cctaactttc	480
aaaatattct ttttcytttg caataaatrr ctctatgctg catctccttt gctgtgtgtc	540
tcttgtttta attcttttaa actaagaaga caagaaccga ggtmtcacia cagccatcaa	600
ca	602

<210> 253
 <211> 519
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(519)
 <223> ltr44

<220>
 <221> misc_feature
 <222> (223)..(223)
 <223> n is a, c, g or t

<400> 253	
tgataaccta cargtcacat ttggcaggct tccaaattaa cccacctcag ggaggtcttg	60
tgattcatgg ccacatcctg tccctgagta aagaatcttg tgagttcctc aaattttatc	120
gtgagttcct caaattgttg acgtactgat taatatgtaa cctactgaca ttgaaaagga	180
cactgatttg tttctgaatc ataaagtttt gctgatttat ttntgaatca taaagtttta	240
ctgattgttt tacatataga ctttttagcc tgtatgttgc aatctgtagc caatgattat	300
aacctctgta ttgtaccctc caatraaaaa agacaactcc gatatgagga gttcccctcc	360
cttctcctaa actttcttat aaaagccttc caacttgtaa magacttcgg aacacwcca	420
actttgttgg tgtgtcttcc caggtcaatc ctcacatttg gcttccaata aacctttatc	480
aaattatttc tgcctcaaca gccttaattt cggtcgaca	519

<210> 254
 <211> 525
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(525)
 <223> ltr45

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<400> 254
tgtaaccgcg ggaccagccc aaactgggcc tactctgttg ataacaaaat gtcaagttac      60
cttgtaggta taacagagcc caaaactgca agtcatgtag cccgggcatg tgcaatagaa      120
aaagctttga cctctaaca caccagAAC caatgattcc tcccctcgga accaagaaga      180
ccgggacatg accggaacct gaatgccgga actctttcag aagcaaaggg gtccgttggc      240
ccggaagatc tggggctaaa atctgcctca acatacctta ccgtaaattg tcaaatttga      300
agccctccaa tcagaccctg ccaagccaac attcctaaat cttttccctt gccctctgat      360
cccttaaaac ttgccccaga ccccaaatcg gggagacaga ttgagccca cctcctgtct      420
ccttgctggc cggttttgca ataaagcctt tcttttctca aaagctggtg ccatagttat      480
tggtttctgt gtgcatcagg cagcaagccc atttgctcga taaca                        525

```

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<210> 255
<211> 489
<212> DNA
<213> Homo sapiens

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<220>
<221> repeat_region
<222> (1)..(489)
<223> ltr45b

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<220>
<221> misc_feature
<222> (396)..(397)
<223> n is a, c, g or t

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<220>
<221> misc_feature
<222> (465)..(466)
<223> n is a, c, g or t

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<400> 255
tgtgtaacca caccagacca atctggttca acttttatgt aacaaagttg tgagttgttt      60
ttcagttgcc atggaccccc aggttgaagg tcatgtaacc tgagcatgcc cagatgaacc      120
aagygtgcaa ccacaggggg aacctaagtg ctcagaccga ggagtgggga ctgaattaag      180
aagtggacac cacatggcag gatccaggat ccaatcagat tgagccctgg catcaccca      240
tggcaggatc caatcagatc atgcctccca gcatcacctt cattgcaaga tccaatcaga      300
tcacacctca ttaccctatg cctataaaac ctgccccaga cccagctca gggagacaga      360
tttgagcatt tcctcctgtc tccttgctag tcgacnnact tgcaataaag cttttctttt      420
ctcaaaagct ggtgccatag tattggcttc gcatcaggca gcagnnagcc cattgattgc      480
ttrgtaaca                                           489

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<210> 256
 <211> 461
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(461)
 <223> ltr46

<220>
 <221> misc_feature
 <222> (116)..(116)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (161)..(161)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (201)..(201)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (208)..(208)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (369)..(369)
 <223> n is a, c, g or t

<400> 256
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 tgaaacattc catggggggt crggccgtga gaaacatcct gcctaaccac ctgacnacaa 120
 ggcggacaaa ggcccactga agaaacatcc ctatcatatc ntgctgggca aagatccaag 180
 gaacaccacg atcacatyct nctggaanaa gggccagaac tgcctcatca taggaacatc 240
 ttatcaatat cctgccgggc agcaagccat actgccaga cccctccac ccagacctat 300
 aaattgcccc agcctgtaag cagtgggtgg ctctggcatt aagctggtcc cccacytyyr 360
 caggttttnt gctggatata aaacctgcat ttgctgtaga gctgccctct ctctctctct 420
 gtgtctttct ttaacctca cttcccttc aaaacctaac a 461

<210> 257
 <211> 452

<212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(452)
 <223> ltr47a

<400> 257
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 ccagttccg ggaatgcctc taagatttcc agtttatcta ttgttccttg tgtaagagca 120
 ggtacttact gtaaactctg cccttaggtc aaaacaacct tgatgttatc atacttacca 180
 taaactctgc ccttagcaat tgcctacac attccttctg aagcacgtat accctttccc 240
 tgtggtatat aagccctggg tctggggggg aacggcgcgg ggatccacca tcttgtctcg 300
 ccgccgccca agacacagac gtggcttctg tttgtaagtc cctattaaat gtttctttct 360
 gagaaactgg atttgtcagc ctctttcttc ggcctctcag cttccttgga cttttggggg 420
 taggtttgca tagacctgct caccgcggaa ca 452

<210> 258
 <211> 443
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(443)
 <223> ltr47b

<400> 258
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 ccgggttcca ggaatgcctc taagatttcc actttatcta ttgttccttg tgtaagaaca 120
 tgtacttacc gtaaactctg ctttagatc aaatcaacct tgataatctc atacttaccg 180
 taaaccctgc ccttagcaaa tgcctacac attctctctg gagcatgtat accctttccc 240
 tatggtatat aatccctggg tctggggggg aacggtgtgg agatctacct gtcttgccgc 300
 caccgaagac cacgcttctg tccgtaagtt cccaataaa tcacccttta ctgacaaact 360
 ggatttgtct gcctcgttct ttggtttctc ggctccttct gcgtttgggg gtcattttgc 420
 atatacggcc ctttcacgaa aca 443

<210> 259
 <211> 787
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region

<222> (1)..(787)
 <223> ltr48

<220>
 <221> misc_feature
 <222> (91)..(91)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (107)..(107)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (172)..(172)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (244)..(244)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (476)..(476)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (652)..(652)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (779)..(779)
 <223> n is a, c, g or t

<400> 259
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 aaaggaaatt ggaaggcctt agaagcagcc ntcagaacca aggtctntct ctgaccttct 120
 cttgcctccc tgtctctctg cccctctttc tttccccaag cacagggagg gnctctctct 180
 gaaatttcct tatctgacta aggaaacttc tttccaaaag aaatgcaatt gtcttgaatc 240
 ccntcccta ggaatctcat caaataacca ggaaagatta accacatgag aagagaagag 300
 actaaaagtc atcaaacca saacaccaca cccagacaga cttttcatca tctattcttc 360
 tgagggcagc tctaagagat tacctgagag actttttatc tgcataataa gacaaccttt 420
 gttcacagtg cagttctgcc cctcaccttc ctataatttg ttctccacca cctccnccag 480

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agcccagaga aactttgtcc caggccattg gtctgttctt tgggccatt catttcccct 540
 aaaaatcatt tactaccct ctaaaattgc ctacatcccc cccatttccc tctcccctat 600
 gaagagggta ttttaagcttc aaccatctgg cccttctttg agtctcatat anattttgta 660
 tgactcccat gttcatatgc atgttaataa atttgtatgc cttttctcct gttaatctgt 720
 ctattgtcag ttcatttcag caaaccttca gaggggacag aggggaagct ttcctttcnc 780
 ccctaca 787

<210> 260
 <211> 676
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(676)
 <223> 1tr48b

<220>
 <221> misc_feature
 <222> (96)..(97)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (263)..(263)
 <223> n is a, c, g or t

<400> 260
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 gcctcaaggt ctctctgacc tcccccccc ctcccnctc ccgtctctca atcctctgtc 120
 tctcccaaag cacaggatga agctgttctc tgaagttccc ttatctacct agaaactgga 180
 cctgccaaag aagaacacaa ttgccttcaa tcccttcctt gaaatttcat taactagaga 240
 agattaaaac tcatatcaca ganaaaaaaa gactgaaaat taaacaccac acctagagcc 300
 cagacaaact ttgtcacaaa ccattgtctg ttctctggtc ccattcaatt tccaaagaga 360
 attatttaca agcyattgtc tgttctctgg gccattcat ttcccccta aaaatcattt 420
 actaccctc aaaaaattgg cctacaawtt tgcctacatt tccccatct ccccttcccc 480
 tatgaagaag ggtatataag catctgtacc ccattgggtt attgggtaat cattctctc 540
 tgtgattccc ccatgctatg cacgttaaaa taaatttgta tgcccttttc tcctattaat 600
 ctgccttttg tcagttgatt ttcagtgaac cttcagaggg caaaggggaa gttttccctt 660
 ggcccctaca agggca 676

<210> 261

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<211> 595
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(595)
 <223> ltr49

<400> 261
 tgaaggaaat caaaatattt yaccccaaaa tatayttctt tgacatattt tgagatggct 60
 rttcagaggg cctgcaaaca gaagtagccc tgcaaagctg tcttttgtgg gggagatttg 120
 catctgtaga gaaaatctgc attgatgcag ccaggctttc tctgaggccc tcccttgtct 180
 ggatctagga aagattaact gagagtctga cacctttaaa ggtctgaaag aaacatttac 240
 catctattct ctctgagggc tgctacctgt gaggtttcat ctacataaca agaccacctt 300
 tgctagccag gcctcctctt ctctccctcc cataacctgt cttgccacta taacctgatt 360
 taccaccata acctgttttg ggccatgctc cgagcccca ttctttctgt aacctcaaga 420
 tggatatataa gcttctgtac ccattgggg ggagttttg gtattcacts tgattctccc 480
 gtgtrtrcac gttaataaat ttgtatgcct tttctcctat taatctgcct tttgtcagtt 540
 gatttttcag cgaaccttca gagggcgaag ggggaagttt cccttggccc ctaca 595

<210> 262
 <211> 969
 <212> DNA
 <213> Homo sapiens

<220>
 <221> rerpeat_region
 <222> (1)..(969)
 <223> ltr5

<400> 262
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 aggagactcc attttgttct gtactaagaa aaattattct gccttgagat gctgttaatc 120
 tatgacctta cccccaaccc cgtgctctct gaaacatgtg ctgtgtcaaa ctcagggtta 180
 aatggattaa gggcggtgca agatgtgctt tgttaaacag atgcttgaag gcagcatgct 240
 cattaagagt catcaccact ccctaattct aagtaccag ggacacaaaa actgcggaag 300
 gctgcagggg cctctgccta ggaaagccag gtattgtcca aggtttctcc ccatgtgaga 360
 gtctgaaata tggcctcgtg ggaagggaaa gacctgaccg tccccagcc cgacacccat 420
 aaagggtctg tgctgaggag gattagtata agaggaaagc atgcctcttg cagttgagac 480
 aagaggaagg catctgtttc ccacccatcc ttgggcaatg gaatgtctcg gtataaaacc 540
 cgattgtacg ttccacctac tgagataggg agaaaccacc ttagggctgg aggtgggaca 600

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tgacggcagc aatactgctt tgtaaagcat tgagatgttt atgtgtatgc atatctaaaa	660
gcacagcatt taatccttta ctttgtctat gatgcaaaga cttttgttca cgtgtttgtc	720
tgctcaccct ctccccacta ttgtcttggt accctgacac atctccctct cagagaaaca	780
cccacgaatg atcaataaat actaagggga ctcagaggct ggtgggatcc tccatatgct	840
gaacgttggt tccccgggcc cccttatttc tttctctata ctttgtctct gtgtcttttt	900
ctttccaag tctctcattg caccttacga gaaacacca caggtgtgga ggggcaaccc	960
accccttca	969

<210> 263
 <211> 795
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(795)
 <223> 1tr50

<220>
 <221> misc_feature
 <222> (342)..(342)
 <223> n is a, c, g or t

<400> 263	
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gtgatgctgg ggctgggact cgactctgca aaccacattt ctgctttgcc agctggctct	120
ccctgttagg ctctgccaat agggggcgct agaggagac tgcaaggggc tggaggggag	180
gaagaagggga cttgctcctt cctgtctgct gctgtttcct gtctgcttcc tgttcctgtc	240
agcatcacc cagcaatgct tcttcaccct ggcagcagtt gcttccagtt gattccagca	300
gcagcagttg attccagttt gcrsagttcc agtttccaac anttityccc aacactccca	360
gaaccagcct cattgtaccc ctcctcctc ctcagagaca ccagcaccag ctgggcagtg	420
ccccctcctc agaggtctga gtcccagctc catggggccc ctcctctgag ctcagagaca	480
ccagcaccag ctaggcagtg cccccctc agaggtctga gktcccagct ccatggggcc	540
cctcctctaa gcttctaagt ttttaataatt ccaacctctt cccttttggt ccccagccc	600
taggggggtgg tggtagctgc ttctgagct tactacctct gtgatacctt agtgttctct	660
ttttgccttt tcagttctct aatamacaac ttataccta gttaacctaa gttaacaatt	720
ctttatatta aattctctct gttaaaataa ctgggtgtgg ttctgtcttc tcctgactgg	780
accctgactg ataca	795

<210> 264
 <211> 671
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(671)
 <223> ltr51

<220>
 <221> misc_feature
 <222> (25)..(25)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (191)..(191)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (193)..(193)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (314)..(314)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (378)..(378)
 <223> n is a, c, g or t

<400> 264
 tgtgatctga gagaccaaaa tagangcccc ttatcaact aagacgggcc ctaagggttaa 60
 ggaaacaaaa gttacctacg ggtcaagggt tcagggcctg gctggcatgg caaatttcta 120
 aattcctaca agaaaaacca cactcttgct aaactcccta acacaatagg agctatcagg 180
 caaattatca nanccctcct aactctgatt tacaaccag accactacaa ctctgattgg 240
 acagaggact ggccttacia acattctttt ctgataagaa actgcagacc ataagccagt 300
 tttggccagt ttanagaggc tgcacacaaa ctgtctttgt gtcctatagt tcaccttttg 360
 acgtaaagag ccaaattnta cttcatTTta atgctaaaac tccaccccaa agtgaacatg 420
 ggatgtatgt tacatatatg ttaccatt gcacatgtgc tcggctcccc tcataaatat 480
 ttatagcttt tccccaaac ctgctgaata tgtatgtctc cattgtgtaa taccaaccct 540
 gtgaggcata aaacccaacc tgccctttcc ctctttgaag agagagcgcc tttggtctat 600
 gccagagact atctcttccc agtttgcaaa ctgatatttc caataaagct ctcctttcta 660

ctatttagcc a

671

<210> 265
 <211> 421
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(421)
 <223> 1tr52

<400> 265
 tgtaataaag agtctgactc ctttttttga tgtttgactg ctgacagctt ttaagcctca 60
 cccctccctc ttccctttgc cccacatctg ggcaagctga taagaaagcc caggtgctcc 120
 ctcttttggg actagcagga aattcaaacc atacaagccc ctgcctgcgg gaaccctcac 180
 cccagcccca cccccctaac cacaataaaa accccaagcc agtctccttt ccctgctctc 240
 tcaagacatt tttggacctg cttgggagggc ctgccctgct ctcccagaa agcctcaatt 300
 atgtaagtaa taaacctttt cataccctct tgggtgtgtgt gtggcatcat cagtcttaac 360
 atccaaacca aattttgggt gggggagtcc atcctgcctc tgcagagtga ccayaacaac 420
 a 421

<210> 266
 <211> 519
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(519)
 <223> 1tr53

<220>
 <221> misc_feature
 <222> (184)..(184)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (359)..(359)
 <223> n is a, c, g or t

<400> 266
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 tcaggagggc ctcaaatggc ctaactacaa gttcccctcc ccactctgct cccatggata 120
 aggtccccta gccaaacaac cctccttatc aaggggacca ggcacagttc ctgcttatcc 180

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ctgntgagta gyggggtttca gttccctgcc agcccgtgga attattcaaa yaagccaatc	240
acatcctcct gcgggaacca ggggtcacct caccctcttg atactacaaa gcctgcctcc	300
cacagcccct gggtgttcac tctgttcctg agtgcaaccc ccatgtggcc ctgtgtgna	360
tgtggtgtcc tcctcccca ggctgtgagt atatgtgatt aataaactgc tgtcaatctc	420
atctgtccag tgttgggtgt catgtgttta rccatcccca taaccctagg gtgggaatcc	480
ctccctcacc aatgggggtga agaggaggca atwaaaaca	519

<210> 267
 <211> 510
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(510)
 <223> 1tr54

<220>
 <221> misc_feature
 <222> (266)..(266)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (280)..(280)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (288)..(288)
 <223> n is a, c, g or t

<400> 267	
tgttaaataa aatttatagg aggccattgt tttggactaa gtcctgcac taggccccaa	60
cagaacagac caaaccaaaa tggagtcact catgctaaag ttccatgtca ccaagctgaa	120
actaagtgtt ttatctgacc ttccaagaaa tcaggagaga gagagagata acagccaaat	180
ccccaacag gccagtttta gccagcatga taaggaagtc ccctctgctt taacctttaa	240
cctaattgtta agcaatcagt tacttntcta ttgttctgtn tccctgtntt aaccttacia	300
ggaaagtaac ttgaaatga ccaatctgct ttttgttctc tgtttctgct ttcttcagcc	360
cttttctgtc tataaagcca acctcctctg ctcagctcat yggaacactc attctatatt	420
atagaatgag gtrttgccc attctagaat cacaaataaa agccaattga gatctttaaa	480
ctaaatttgt tgtaattttg tcttttgaca	510

<210> 268

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<211> 548
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(548)
 <223> 1tr55

<400> 268
 tggtatataa atgagccaaa gatggcctct gtgtattggc ccctagggtg tttatttctt 60
 cactgcaggc tgagacctgt tagctcaaaa gccaccggc accaaactca aatttttaca 120
 catccawatt gttttaaaaa tagcccaaac aagcagattt ttagccattt agagcctgcc 180
 tgctttgcat accccgcgaa acytcacca acatctgcta gccattgcac ttataagrcc 240
 ccaargcgct gctgcycctt ggagctctct gaccagaga ctcccyaac gtgctgctga 300
 gaaacatcac ttagacacat aagccccctc tccgattccc ctctcccccg ggagttccct 360
 tgccctcctc cccttctgga tgggtggctcc astccctaaa cctctrgaca gtctcwtgct 420
 gtgaggagct tccccttcat gcaaccctgt ccaagtcca cccaataaag tttgttgtgt 480
 ggtactgccc ctgctgggtc atatcttttt ccttgatcag ccccaaatac ccttraaccc 540
 ccttcaca 548

<210> 269
 <211> 445
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(445)
 <223> 1tr56

<400> 269
 tgagaattaa gaaaagaact tttatctgag gaatgcaagt cttttaaaatt atcaggccca 60
 gagagacatt aaaatgagac cgcaatcacg tcctactccc cactttgagc tatgtatttc 120
 atctcttgaa actgcttgct attgccacaa gtagctataa attaacctaa taatgccaca 180
 ccrgacacta taaccacac cctatagctt aacaatgtat atggccaatc actaatcaat 240
 gttatttctg taaaccaatg agaattyctg acaaacaact ttgtatcagc ccactccctg 300
 tccccctctt ttttgccttt aaaaatccac ttgtaactgc tgctaattgg agtgtatatt 360
 cagggcaact tgaatctatg ctctgggtt gcaatcctca agctttggct caaataaact 420
 ctctacttat attaattttg cctca 445

<210> 270
 <211> 411

30307CNT1.ST25

<212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(411)
 <223> ltr57

<400> 270
 tgtagtgtag caggtccccc aaccagggtta cctaaggggtg tatgtccgct gcctgaaccc 60
 tgaaggccag gtggtgagcc aaggccatgg tgcccagctg aggagcaggt gtccctgaga 120
 acccaaacat cccrgagagt atctgagaac ctaccaagga aaacagtccc attacacaca 180
 cacagtaggc aaagagccag aaaattagct taaaagcagc ttagagatgg gaggtggcac 240
 ggatctctag agctgtcctg ctgccatcca ggagtgccct gtatgtaagt cctaataaac 300
 tcatctactt atcaagctgg acttgtccga gtcattcttt ggtctctcrp ctccttccca 360
 gtttgggggg aggtattttt ttatatacag tcccagggtt ttcttgtaac a 411

<210> 271
 <211> 679
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(679)
 <223> ltr58

<220>
 <221> misc_feature
 <222> (150)..(150)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (225)..(225)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (386)..(386)
 <223> n is a, c, g or t

<400> 271
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 caatgggcct cacatgtcca ggcattatcc ctcccctacc ttcttgctc ccttaacaag 120
 ctgaccaag tcacgtagca gaaagggggn cctctcctaa cttagctgac caggctgaat 180
 tcctaaccat aaaaggaaga acctaaccat ttatctcctt gagtnatgtc ttccaagggt 240

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gctgaagcag gactctggca ttcctgataa gaacctgacc agatgcagcc ggctgaagac 300
 aagatggact ccagcgctga cctttcacca agtttttctt cattataatc tcattgtaat 360
 actaaaatct ccgcccargg tgggrnttat ctgccahhhh ctrgacatgc gatgcatgtt 420
 agagcatgac gtctcactgc gcaggcgcta aaaagacccc gcctaaacat gcttgcctac 480
 acgtcgctcc tttttcctgc ctcaacttcc ttaaaatgac aagagccgag cccttttggg 540
 agctagcatc aggatccctt tcctgtacgc tgctcccttg cgctgctcga gccgcaagcc 600
 tattaaacct tgcctgagaa aatcggtttg gcctggtgtt aatttctact tacatgagag 660
 ccaaggaact tgggggtcca 679

<210> 272
 <211> 597
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(597)
 <223> ltr59

<220>
 <221> misc_feature
 <222> (308)..(308)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (312)..(312)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (553)..(553)
 <223> n is a, c, g or t

<400> 272
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 gggaaaccca gagaaacctt ggaagctgar ttcacggcca taacaggatg ggagatcaga 120
 cacgcctcat tataycccct ccctcgctaa ctaccattag gttttcttcc ctaagggcta 180
 aacagaaacc agccctttca aaagtctcca cactgataat gtccattact agcttatctt 240
 cccaggtaca gaacaaagac aagatgagat taatcattcc ttcaccctc cccgagacat 300
 ctgcttantt tnttcctcta ttccctttty cttcaaagt tccacttatc ttatgtaaaa 360
 tgtagattta ctgggcacta actaaagtct cacaagtatg taatcattcg tctcactgcc 420
 accccctttt ttaaggaaaa tgtgtaaata ctaaacctcc tgagaacctc tttggaaaaa 480

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acagccacag atgcttctgt gacttacatt tttcctrgrt gtgccctcaa gctggctcag 540
taaacctga tgntttgaga cttatactc aatcactcat tttggttatc acyctca 597

<210> 273
<211> 586
<212> DNA
<213> Homo sapiens

<220>
<221> repeat_region
<222> (1)..(586)
<223> ltr60

<220>
<221> misc_feature
<222> (37)..(37)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (96)..(96)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (121)..(121)
<223> n is a, c, g or t

<400> 273
tgttagagta ggcagatagc cagacatgag caggagnnga agcccctgrg aaaaggaagg 60
tctggaaaat ctcacacccs agagaccacc caaanatac ataytagata tgagcagaga 120
ngaggggaaa tacctatgca gaaaaaatg ccccttaaga tgcccagtaa tcattcactc 180
tgcagttaaa ctgtcagaat gttgctagct acatgctgat aagggaagag ggcaaaggag 240
aaattcctaa gagataygca ggtgcagtaa gtacagattt gaccactata caaccttcct 300
ggggtggcag taatgagcaa tgcmgccatt aggtagratt catatccaac accgggtccg 360
tgcattgcga tcaaccaaca gtaagggagg vtcccacaag cctgggtagg aactaggtgg 420
ggaaargcag ggacttaagg cagaagcagg aaaactagas aaagaaaaag gtggagactt 480
aagacagagg tggaacttc aaaaaaatc ygacatcata aaaaccccggt gcagactctc 540
agggctgctg ctggctcact ctctttcagc agcccrctct gcctca 586

<210> 274
<211> 595
<212> DNA
<213> Homo sapiens

<220>
<221> repeat_region

<222> (1)..(595)
 <223> ltr61

<220>
 <221> misc_feature
 <222> (283)..(283)
 <223> n is a, c, g or t

<400> 274
 tgaggcagaa atttaaaaat aataataagt actgcattca ttcactccaa gaaaagtaaa 60
 agccaaggcc cagaatgtgg caaggcaagg gttaaaaaga aaaaaaaaaar gaacaagttt 120
 tcctctgcct agccaagctc acttcaagga cagttataag ataacgctgt ycgaraagcc 180
 aaggccaaag gaatgggctc cagacacccc cccacctcca gagcaagggt gaaggaaaaa 240
 aagagaaaga caaatcctt tactgttact cctttccctg gcntcttaag catgactatg 300
 ttttacaat gtctgtatgt agccagttct tgtttttctt tygacgcagc tacaaggcca 360
 ccagctatgc aaggccacaa gttatgttat gctatagatt atgtgacctg tctactgtatg 420
 attaactgcc tttgttttgc ttttgtaagc ctgcttataa aaaccccrct ctgtctttgt 480
 tcaaggctca gctttttgga tgtgaatcca ctgagctggg gcgtacctta aaataaataa 540
 caatcctcct gtattcacc atattggtct ctctagtcct cagtttcccr caaca 595

<210> 275
 <211> 719
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(719)
 <223> ltr62

<220>
 <221> misc_feature
 <222> (318)..(318)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (674)..(674)
 <223> n is a, c, g or t

<400> 275
 tgtatagagc acccttgaca taagtaactc catcttagaa aaagactcca tcttacattt 60
 caaaaggcat cttgccaaaca gggaccagat gttttgccta atcaataaag actgcaycca 120
 accagataag gacataaaca agcacactct tccactatca gtcctcacca gaggactctg 180
 tggccataaa aagagcagga cttcaccagc tcaaaatggc catcttaaca gacaccgtct 240

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tgctgtcact tgtgataagc acccagcatc tgccaccaa	ggctctgccc acatcaaaga	300
ctcttccttg caagacantg aggctgacgg actgcctgga	tcaggccagg acactctttt	360
tgtctacgtc actctccctg gactggttcg ttaacccttt	ttcctatccc ttttctcttg	420
atgttaaagt ttactttggt tgttggtgaa tgtttaatct	ataacattta tatattgatt	480
aagtatacta ttatgtatgg tttgcaatat tgactgactt	gtggagtggc ttgagcctgt	540
gtgcccattg ctctgactac cgagtgaayg ggaagtacta	aggagaattg cctccttggg	600
aactccatgt agctcgtggc ttttgtgatt gaaatagcat	caataaaagt ctgacattgt	660
ggaaagacac aaanatgtgt ggacctgggt atctctgacc	ttgcrctgct cacgacaca	719

<210> 276
 <211> 557
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(557)
 <223> ltr64

<220>
 <221> misc_feature
 <222> (339)..(339)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (344)..(344)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (100)..(100)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (468)..(468)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (542)..(542)
 <223> n is a, c, g or t

<400> 276		
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ttcacaaagc ccctgactct gtgatgacat gcagctctcn	agaaagatgc tttgaagaca	120

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aarcaggatr gagcacacag ccccccayrt ctcttgccctg agtcactaya ttccttaaaa	180
gataaatgac cctagtcctt gccttttctt acacagaaga taatgtctga cagggttagt	240
gattatgcct ctgtaatcta taaccagatg tactcttaca cccaaacttt gatgtgattc	300
tgctctaata taacttctga gcaagtttga tgtgattant tctngcaagt ttgatgtgat	360
tttgcacgta ctgaacctct accacctgta tataagctgt gggctgaaac actgttttgg	420
agcagtctga cagaacctct ctgaaagact gctcccaggc tataggcnty cctcagtcta	480
cagtcctcag taagacttct gaataaaact aactttaatt ctttaaaagc ttgatttttt	540
tntttcttta gttaaca	557

<210> 277
 <211> 669
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(669)
 <223> ltr65

<220>
 <221> misc_feature
 <222> (131)..(131)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (465)..(467)
 <223> n is a, c, g or t

<400> 277	
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cagctgcaaa gtataacagg aaacaatatt tctcccaagg acatactgca gctgtaaagt	120
gtcataacaa ncctccttct ttgagtgact actgctttct tactcactga gaaaccttgt	180
tctctaaaat catagactat cagaaacttt gctgtttgaa attatatcag taagaatgaa	240
acatcccact cttgcctgga ggatctaagt cactttgaca cagagaagca gcctcaattt	300
ccaaccaggg tgcagagctt cagataaggg gtttctggac acaacattcc acatttatct	360
taactttgta gtttccaagg aaacaggacc ctgggtccac tttgcagtcc aggacctgat	420
gttgaccctt ttacacacag ccctgctttg ctttgagcct atcannntca aaacactgct	480
tcattttaaat ttcacctaaa ctccaccctt cccccaatc ctataataac tctatctttt	540
cctttgtttg gtgagatgct ccatggttcc tctgggtgtgc agtctccctc attgcaataa	600
gtcaataaac ctgactttgt tggactacag gtttgctcct ggtggtctta ggctgattgg	660

gctaggaca

669

<210> 278
 <211> 610
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(610)
 <223> ltr66

<400> 278
 tgttctgtgc gggaaacgcg tgaggggaga agaaaagaca cacacacaat acctttaagg 60
 gtaaacaagc tttatcccac gtaaattggca atgcagatat aataagcaaa tgatataata 120
 agcaaattga tataataagc aaattgcaat gggaagggga gaagggaata gatatatata 180
 tatgtatata tatatatata tatatatatta cactcaccag actatggagg attcaccacc 240
 agactgggaa gcaacagcct gggctccaga gtcggccact catccgtgca cagacgagga 300
 gaggtctcat gaagcttygg ygcagtctgg gaccctagct ctttttgtaa cgagttgttt 360
 ggcattgaggc ccagtcacga gggcccttca cgactgggct caaggaacac aaaaagggtca 420
 acttgttttt gtgattgtct attgtttttc aataactaat gtataggaat agattgaaat 480
 agagatttct ccgaaacagc gctggatgaa tgcctcaagg ggctcacaca acctgttcca 540
 ggacttggtg accattgttt gtgtccatgt tcaattgagt tcaaatttaa tatttaactt 600
 ttctccaca 610

<210> 279
 <211> 566
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(566)
 <223> ltr67

<220>
 <221> misc_feature
 <222> (16)..(16)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (98)..(98)
 <223> n is a, c, g or t

<220>

<221> misc_feature
 <222> (235)..(236)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (402)..(402)
 <223> n is a, c, g or t

<400> 279
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 cttataaatt ctacctcttt aaggtagaag ccagaaanct cttttccca gcctcccttg 120
 cagctagggt gcwggcatgt gacctaggct ccgccaatca gatgcacca tgcagcaaga 180
 cttcaaatta gaagctagt atgcaaagaa gcagggtgcca tgcagaatcc actcnngggt 240
 gagagtggca gcagctggca gagagttttc agaggcagga gtggcagaga tccaagtagt 300
 agtgtccagt gttcatgtgt ggtgcaagt gtggtatgca gtgtccagta gtagcagcag 360
 tgggtatcctc actgtgacca gttctgcagt gtgatttggg cngcattggt cctggctgta 420
 tagcctctaa gcctggttct ctagccctcc tagagattct gtgagctacc taatatcctt 480
 taatattcct ttaataaatt ctttttctgc ttaaattagc cagagttggt ttctgttggt 540
 tgcaactaag aaccctgact gataca 566

<210> 280
 <211> 563
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(563)
 <223> ltr6a

<400> 280
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 agactccatt tggctccttc atttgcaaga catcaagggc tccttaccba ccccttcct 120
 caaggactcg tgcaagctga ctcccagcac atcaaggtag tgcaattaac caataaggta 180
 ctgtggcaag ttatgtccac agttcccaga aattcgccca agtgatagta ccctaagccc 240
 ccgcgtttgt gtctggtaga tagcagccaa agccctcgca cctatcacct tgtgatgtga 300
 tggatttaaa gcccctgcac ctggaactgt ttgttttcct gtaaccattt gtcttttta 360
 ctttttttgc ctgttttact tctgtaagat tgctacagct aggcttcccc tcccctctct 420
 aaaccaaagt ataaaagaaa atctagcccc ttcggggccg agagaatttt gagggctagc 480
 catctctcgg tcgacagcta ataaaggact cctgaattaa tctcaaagt tagcgtttct 540

ccataactcg cttggttaca aca

563

<210> 281
 <211> 450
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(450)
 <223> 1tr7

<400> 281
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 cagatggcct gaagtaactg aagaatcaca aagaagtga aatgccctgc cccaccttaa 120
 ctgatgacat tccaccacaa aagaagtga aatggccggt ccttgacctta agtgatgaca 180
 ttaccttgta agagtccttt tcctggctca tcctagctca aaaatctccc ctactgagca 240
 ccctgcgacc cccactccta cccgccaaag aacaaccccc ctttgactgt aattgtcctt 300
 tacctacca aatcctataa aacagcccca cccctatctc cttttgctga ctctcttttc 360
 ggactcagcc cgcctgcacc caggtgatta aaagctttat tgctcacaca aagcctgttt 420
 ggtggtctct tcacacggac gcgcatgaaa 450

<210> 282
 <211> 691
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(691)
 <223> 1tr8

<220>
 <221> misc_feature
 <222> (502)..(502)
 <223> n is a, c, g or t

<400> 282
 tgaaaccgcc tttgcaaat tatgactgag acagtgaag agatctaact twactgactc 60
 catcttgctt ctaacctcca agctgtcctt gttcattcct gggcgtaggc tgaactaact 120
 ttgggagaaa cttagtttat agtttatagt ttaaacaaag acggtaacag ccctttccca 180
 aagcagacct ccttcttgcc tggggactag attgcctttg taggactaac attagccgca 240
 agattagaaa ttatggttta ggagtcatgc agctggaggc tacaagattc tgaccctccc 300
 taaactgctc ctaagatcag tgcttgagat attttgaga ccctgcgctt gatggatcag 360
 ctggcaccac ccagatcaat aaactggctc atctgatctt gtggcccca cccaggaact 420

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gactcagcgc aagaagacag ctycaactyc ctatgatttc atcyctgacc aatcagcact	480
cctgggtcac tggcttcccc cnaccaccca agttatcctt aaaaactctg mtccctgaat	540
gctcagggag actgatttga gtaataataa aactccggtc tcccgcacag ccggctctgc	600
gtgaattact ctttctctat tgcaattccc ctgtcttgat gaatcggctc tgtctaggca	660
gcgggcaagg tgaaccmmtt gggtggttac a	691

<210> 283
 <211> 727
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(727)
 <223> ltr8a

<400> 283 tgaaactgcc ttgcaaaaa ttataacagt gagaaaatta tgacagtga agagatctga	60
tctaaccaac ccccatcttg cctttaacct ccaaactgcc cttaatyatt cctgggcttg	120
ggccaagcta actttgggag acatttagtt tatagttaa atgataatag cccttcccca	180
aaactmaacc gcctttgtaa agctaataa agaccaccag gytaggagga tgagaggagc	240
ctgaattctg ctaagggtga gacataaacg attaccagcc attattccag aggtcacaag	300
atttgcaact tccccaatta ctctgcaga taacatcact attgtagaac ctaagattgg	360
ccttttgaga tatcttttca ggtttttttg catttctgac accaatggct ccacctggac	420
ccgccaacca ctctgtggc cccaccaga agtgactcag cacgcacgag gaccattttc	480
cacacccta tgattgcac cccaaccaat cagcagcaag caccattgc ctagccacc	540
ccacccctg ccyacaaac tatctttgaa aaaccctagc ctctaaattt tcagggagat	600
tgatttgagt aataattctg tctccacat ggcgtggcca gccttacgct aattaaactc	660
tttctttatt gcaatgccat ggtctttgtc tgtgcagcgg gcaggaagaa cccatcgggc	720
ggttaca	727

<210> 284
 <211> 645
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(645)
 <223> ltr9

<220>

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 <222> (230)..(230)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (235)..(235)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (396)..(396)
 <223> n is a, c, g or t

<220>
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 <222> (399)..(399)
 <223> n is a, c, g or t

<220>
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 <222> (449)..(449)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (469)..(469)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (484)..(484)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (497)..(498)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (636)..(636)
 <223> n is a, c, g or t

<400> 284
 tgatacagga gttaaaaaga aattatttag gcagatagtg agggtaaggg agtcctcggt 60
 aaggttttcc tttaacgaa aagcagcccc caaatcattt tcttttctaa caaagagcag 120
 cctgtaaaat cgagctgcag acatagayaa gcaagctgga agcttgcacg ggtgaatgcc 180
 ggcagctgtg ccaataggaa arggctacct gggggcyagg catgttcaan atggnggctc 240
 catcttcctt tctctttgtc agccacgtgt acagtaagga gcagacaaca tggcgccggc 300

30307CNT1.ST25

cargtagaga gccatttgc ataataaaag attaggggtgg ggcggccagc cttccccgcg	360
cgctatgyaa acgkacacacc tggccaacc aatctntgng ccctatgtaa atcagacacc	420
gcctcctcaa gcygcgtctat aaaatccgnt gcatygtcca ccagccggnc tttccactc	480
gggnaccctt ctctctnnag agagagagag ctgttctcct ttctcttttc ttttgcctat	540
taaacctccg ctctaaact cactccttgt gtgtccgcgt ccttrattty cttggcgtga	600
gacgacgaac ctcggtatt taccacagac aacgangccg cttca	645

<210> 285
 <211> 644
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(644)
 <223> ltr9b

<220>
 <221> misc_feature
 <222> (78)..(78)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (144)..(144)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (430)..(430)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (443)..(443)
 <223> n is a, c, g or t

<400> 285	
tgttgtagga gttattaaga aattatttta ggcagataga gaggaaaagg ggtccttggg	60
aagttttcgt ttcttttnaa agcagctcca gaaacatttc ttgtctagca gaaaagcccc	120
ggctcttaga gccaggccgg caanctttga tatgcaaagc caggccatta gaaactgggt	180
ccaccaaca tggcgattcc caccgtcgtc ttcttgccct tgccccacat gtgcctggca	240
acatggccgc cccacatat cccacgtgt gtagaacatc atggcgccct gcatttgcac	300
attaaaaggc taggggtggga gggccagttt tttcgcgggc tacgtgaatg acatgcctgg	360
tcaaaccaat cccctgagcc ctatgcaaag cagacaccgc ctctccagc ctctcatat	420

30307CNT1.ST25

aactggctgn twtccgccgc acncgggggtt tcctctctcg gctttggagc cccctccct	480
ctgtctctgt acagggggagc ttcttccttc tttcttctcc cttctttctt gcctattaaa	540
ctctccgctc cttaaaacca ctccacgtgt gtccgtgtcg ttttatctaa atcggcgcgga	600
ggaccaagga ccctggtgtt cctccastca tcggagccgt atca	644

<210> 286
 <211> 80
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(80)
 <223> made1

<400> 286	
ttaggttggt gcaaaagtaa ttgcggtttt tgccattact ttyaatggca aaaaccgcaa	60
ttacttttgc accaacctaa	80

<210> 287
 <211> 471
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(471)
 <223> marna

<220>
 <221> misc_feature
 <222> (22)..(22)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (25)..(25)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (70)..(70)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (302)..(302)
 <223> n is a, c, g or t

<400> 287

30307CNT1.ST25

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ttatacatcc aaatgaatgt tntcnttcaa agtagtcacc ttgggaaagc tatacattta      60
tttttaacn awcacaattc tgccattgat caaaacattt ttggaacttc tcttttgga      120
ttgccttcag aaccagttta tgagccacat aagaaaatca gtctcattac tttatagtca      180
cacctcattt ttgacaaaa atagtattac ccagtttgat caccacctt attcaccaga      240
cttggtctctg aatgactttt ggctgtttcc aaaaatcaaa tccaccctca aaggataaag      300
anaagatttg ccaccattga ggatattcaa aagaatatgc tgcaggctct gaaggcaatt      360
ccaaaaagaa tgttccaaaa atgttttgag caatggcagc atcattggaa taagtgcata      420
gcttccaag gtaattattt tgaaggggac aactctcatt tggatgtata a              471

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<210> 288
<211> 1264
<212> DNA
<213> Homo sapiens

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<220>
<221> repeat_region
<222> (1)..(1264)
<223> mer100

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<220>
<221> misc_feature
<222> (137)..(137)
<223> n is a, c, g or t

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<220>
<221> misc_feature
<222> (289)..(289)
<223> n is a, c, g or t

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<220>
<221> misc_feature
<222> (495)..(495)
<223> n is a, c, g or t

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<220>
<221> misc_feature
<222> (546)..(546)
<223> n is a, c, g or t

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<220>
<221> misc_feature
<222> (1165)..(1165)
<223> n is a, c, g or t

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<220>
<221> misc_feature
<222> (1190)..(1190)
<223> n is a, c, g or t

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<220>
 <221> misc_feature
 <222> (1241)..(1241)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (1238)..(1238)
 <223> n is a, c, g or t

<400> 288
 gattccaggg taakcttaca agacataaat tcattcactg catcattcat aggcaagcta 60
 ytrcaacaaa gatgttgaar ccagaggtac amaaaaggct gcatgacgtt actaatgtta 120
 atgttataaa aacaaanctt taatatcttg tacagtagaa tctatataat actttgtaat 180
 aaawtgggaa rtgaccatga aaatcttttg taccacacag aagtttgcta gttatcttgt 240
 ggcaaagtac ttaattaaga gttgtcaaac ttaaagatga gttatattna tttttctttt 300
 tacaaaaaga caagtgttcc aaatttgact gaccttttct gtgatgacaa gtgactgtca 360
 gtagtatgct acctagtaga tttttttgaa aaaaataaac gcacttaatc tgtcccttca 420
 aggtaaaggt gtcgatatct taacaatgag tgagaaagta actgcttttg aargaaatgc 480
 acaatatgga gagancattt tgaaaataga tgtttggaat tgtttccatt gttatatgat 540
 tttgtngccg aaaatgatgt aagtgtgata cctataaaaa ctctcatatc tgcacacttt 600
 aaaacttgga aacagaaatt tctaacctgc tttttaaaaa tcttccaaat gaagagtttt 660
 aagtgggttt tgaacacatt tgtaaaaaat attaaaatgc aacatcttcc gattagtttg 720
 caagaacaac tgattgacat cagggaatg ggaatttac tagccaaatt tcaacaaaaa 780
 cttttgcata attggttagat gggattgaaa aatgagtatc atgatttagt aagcacagcc 840
 aatgatatay ttcttccatt tggatctaca tatctttgtg aggtatcttt ttcagctatg 900
 acagccatta aaaccaagta ttgaaataaa gtaaaaacca gaccttcaaa tcaactgtatc 960
 aaagtgttaa accaagattt catattatyc tagcatttaa ataatgtyag atttttaaaa 1020
 aaaagcatat tcaatcatat tctctcatta aaaaatwaat aataaaattt taatgaatat 1080
 ataaaargtt ttatatacaa ttataaaatw taaattatct taaawtatat ttyatcttta 1140
 tctcatcctt ttaaaattts ttttntgtat atgctttata atatgcatan taagagtagt 1200
 acatgcatat aatttawaaa ttaaaataca yatgttknaa ntayatgttc aaaatatttt 1260
 tatt 1264

<210> 289
 <211> 474
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(474)
 <223> mer101

<400> 289
 tgtgaacaaa tgtgaacctg aaagagccaa tccttcaaga tggatcccga gtggctaact 60
 gggcctaaat ttaaaataga gccaaagcggc catttgctga ctagagggtca cacacgtact 120
 ctgagttccc cgaaaacca cacctctggt taactttggg actttcagag ctcacctgaa 180
 ccaaccaatc agagctcacc tgcmtcaacc aatcagggct cagctgtatc aaccaatcag 240
 aactcagctg tgtcaaccaa tcagaactaa gcaagtttga atccttcatt tgcataaacg 300
 gacctgattg ggaacctggg caggaacttt tgctataaaa cccaaaccct cctttgttgc 360
 tctggaaccg caccttcggt ttacaccgaa ggctgcatct ccccggtttg caaactgttc 420
 actggaataa agtctctttc ctccaaattc cttttcagag aacttttggt caca 474

<210> 290
 <211> 570
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(570)
 <223> mer101b

<220>
 <221> misc_feature
 <222> (142)..(142)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (209)..(209)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (353)..(354)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (449)..(449)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (552)..(552)

<223> n is a, c, g or t

<400> 290
 tgttaaagta tgcccctagc tgacagacaa aatggactcc ctgtggctaa mtgaggtgct 60
 caaagttaaa acagaaccag gcagccatgg ctgggtgagg gagcagtcac atattctgtg 120
 ttctcagaaa gatgtaaaag tntcacagga cctccctttc tacaatcaag ccaaaccagt 180
 tcctattgty agtgccaaga taaactgcng ccagaaacca cctccccaca agcccactag 240
 aaacaaacat ctgacagaga cttctgattt ggggcttggg aaccaaccaa tcagagctca 300
 cctaccccag ccaatcaggg ctcagctgta tcgaycaatc agaactyagc tgnnccaacc 360
 aatcagaact aagcaagttt caatccttca ttgcataaa tgracctgat tgggaacctg 420
 ggcaggaagt ttgctataa aacccaaanc ttcctttgtt ctccggaaag caccttcatt 480
 ttacactraa ggctgtgtct ccctggtttg caaactgttc actggaataa actctcctcc 540
 aaattccttt tnagagaact tttgttcaca 570

<210> 291
 <211> 332
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(332)
 <223> mer102

<400> 291
 gggttgcaaa ctcaaatgcc tacaggggcc aggcaggtaa cataaatgag tgaagtgggc 60
 caggtgggga ctgtggcaaa ctggagagca catgccctgt ctaaaggggg cagcagctgc 120
 tactcagctc cagccaattg ttgccatgtg ggaatgtagg ccagtgttg ccagatcttc 180
 tgatTTTTca agagaagcca gaaatctaga tttttatgtg aaatctcctg atttttaaat 240
 gttggcaact aatttaaaat ttttawaaaa cactgtgtag gccaaacaaa acatatctgt 300
 gggccagatt tagcccatrg gctgccagtt tg 332

<210> 292
 <211> 166
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(166)
 <223> mer103

<400> 292
 agttccatgg tcaaataagt ttgggaaatg ctgggttaaa caaagttaaa caggtttctt 60

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tactgcagga cttctcagag cctttaatat gctaattgtgc attgtgaatc tccaagaggg 120
 gaaatatagt atgcagtrtt tcccaaattt atttgaccat ggaact 166

<210> 293
 <211> 185
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(185)
 <223> mer104

<400> 293
 taccatattt cattgaatct aagatgccat caattgtaag atgcaccatt attttatgta 60
 ccactaagaa agaaaaaaat gctgccaatt aaactataac atgccattaa ttgtaagatg 120
 catcccaatt tcagagatgt taaaatgtga aaaaatgtgc atcttagaat cgatgaaata 180
 tggta 185

<210> 294
 <211> 204
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(204)
 <223> mer105

<400> 294
 cagcctttct caactagggt tctatgagag aattaagccc taatgcccta aggcatccat 60
 tgtatgtaat gaattaactt ctctcctatg catcctagaa tggtagtagt tatataccat 120
 ccttgggaga attgagaaaa tagtcactca aatcattttc tgtgttctgt ggttcagatg 180
 aggaaccctg gttgagaaag gctg 204

<210> 295
 <211> 258
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(258)
 <223> mer106

<400> 295
 cctatttaca ttaggccatg cattctcaac aggggcaata ttgcccccaa ggggggtgaaa 60
 attggttctt ggggggagaa aaaatcttag atattacaat ggtttgtggc cctccaaagg 120

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gccacagtac ataaacagat atacagtata tctgtggtat taaaatttca tggggaaggg 180
ggatttagga aaaaaatgtc taaaaaggct ccttaggggg ggaataatga aaaaagggtg 240
agaaacactg gtctagag 258

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<210> 296
<211> 197
<212> DNA
<213> Homo sapiens

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<220>
<221> repeat_region
<222> (1)..(197)
<223> mer107

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<400> 296
caggggtgtc caaggagag aatacagtca tgggttctta gtttctgtt ctgggtgggc 60
cagtaaagcc ccttcctcat ccctcttttc tacttatcac tagagacaga aactaaaaac 120
catggcttca ggctgctaaa agcctaaaac aaaacaaaac agaacaacaa caaaataagg 180
cgggttgac aagcttg 197

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<210> 297
<211> 633
<212> DNA
<213> Homo sapiens

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<220>
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<222> (1)..(633)
<223> mer108

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<220>
<221> misc_feature
<222> (2)..(2)
<223> n is a, c, g or t

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<220>
<221> misc_feature
<222> (10)..(10)
<223> n is a, c, g or t

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<220>
<221> misc_feature
<222> (17)..(18)
<223> n is a, c, g or t

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<220>
<221> misc_feature
<222> (20)..(20)
<223> n is a, c, g or t

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<220>
 <221> misc_feature
 <222> (57)..(57)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (90)..(90)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (113)..(113)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (135)..(135)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (182)..(182)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (184)..(184)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (225)..(225)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (302)..(302)
 <223> n is a, c, g or t

<400> 297
 antacacctn gcagttnnmn cacagtttca ctgtaaattt taaacacaaa taaaaantcc 60
 aartggtcac atagaatgat agaattgaan taactcaagt tctgttgtct ttntttttac 120
 aatcactatg ctatngttta aatacaggaa tatgtagtac cacagggggtt ggagacatga 180
 antnactgta cccgaagtga gcttgaatgr attctaaact attangaact tactctagaa 240
 acaaacatat gtagctgagt ccacgtgtgt tggggggccaa ctgtataact ggaagttctc 300
 tnaattaact tccatgtaga atacaatggtt tattaagga taagtaataa aaatgtgcta 360
 atttgaagtt tacatatata ttattaaaac tcaacagtaa ctgcagcaat tkgtttagaa 420

30307CNT1.ST25

cttagaccaa caaaagattt tttttttwgg gaggagtatt ttatcactga cattgttttag	480
aattgctggg gcatgggtgat aataamaaag cagactgact tttagtcagt tttattattg	540
ttaattctct acagacaatg cacccttcta ttgcctgcac ctggggcgga ccactcccac	600
tgccctgccc ttggtatgcc actggtttcc tac	633

<210> 298
 <211> 1994
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(1994)
 <223> mer109

<220>
 <221> misc_feature
 <222> (12)..(12)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (18)..(18)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (31)..(32)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (54)..(54)
 <223> n is a, c, g or t

<220>
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 <222> (68)..(68)
 <223> n is a, c, g or t

<220>
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 <222> (90)..(90)
 <223> n is a, c, g or t

<220>
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 <222> (167)..(167)
 <223> n is a, c, g or t

<220>
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<223> n is a, c, g or t

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<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (254)..(254)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (262)..(262)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (300)..(300)
<223> n is a, c, g or t

<220>
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<222> (303)..(303)
<223> n is a, c, g or t

<220>
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<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (413)..(413)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (451)..(451)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (471)..(471)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (493)..(493)

<223> n is a, c, g or t

<220>

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<222> (524)..(524)

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 atangcatgt gtaatgctct agagatgggt taacaaattt atatccaaaa gtcattttcca 240
 gaagacaanc cttntctatra antttaacaa aaagtktaca aaagggtgcta attctactan 300
 gtncctttgtc atacactggc agcctcttta acatctagag actagatggt gcaaaattag 360
 gactcatttg tccattatat acacnatata caaagcaaaa caaaatgcac aanacatata 420
 gaacaagagt tcctgaaaat gtgcaattat naacacactg gcacadaacc nttcgcactt 480
 ccttctctcc canctcctct aaaccactga ataagcacag acantaatat acngctcaaa 540
 gagatgggtt aacaattcca ttyccmaaag acagnttttc ctrtgaattt tanntaaaag 600
 tnacttaaag ngtgttattt tactacctct acatttaaca tacattangc acttcnraac 660
 atctagaaag actagatrtt tcaaanaagn acttaatttg tccactatat gtacagtagc 720
 attgaataaa ttgcacacat ataacaatgg ttataatttg aaagtgtctt ctaaatatga 780
 mcattctggc ctaaaaccct tcccatctcc atcaacycag tggacaataa tgctcaagtt 840
 ttcagaagac antcttttct atgantttta angcaaaatg tacaaaatta ttagtttact 900
 aactctactt ttgtcatata ctggcaacct cttaacatc tagaaagact agatgttgta 960
 aaattaggac ttgtttgtcc tttatataca ctatatacac agataagtaa aataaaatgc 1020
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 actcaagagg tggtttggcc attcccccaa agacaacatt tcatatgaat ttttaacaaaa 1200
 agatatttac aaaatgtatt attttactac ntctactttt aacatatatc aggcacttca 1260
 gaacatctag aaagactaga tatttcaaaa aaatacttag cattgtcaac gatatatata 1320

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gtagtgagga ataaaatgca cacaaaacaa tggttataat atgaaaatgt cttctaarta 1380
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taaccactg aatgaacgtg gtsgtgtntg ttgctcctgg tgtcacttct agagctcgtc 1500
taacaatttc gtttcnaaaa gtcatttcca gaagacattt rttttctank attttttaaa 1560
anaaaaaagg gcatttacia gacgtgnnat tttctaactt yttwacatat agaagggcta 1620
gatatagcaa anattttctw ttaaaargtt ggggggnaag ttgagagcag ctttttcata 1680
ttatatacnc gggccttcta taaacggtgg ccagtaaadc ttcccaaagg gtggtgggca 1740
tytccaatgc gccaaatgtg gcntgttatt cyaccatttc tctcttccma catcaaggtc 1800
tggtagaasg aaggccaacc gcccgatggc cngctaaccd ttctaccctg cstygtccgg 1860
gactcygctc accttctagg ccgtttaagg cctttgtccr tcattnctgg catngtcagg 1920
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<223> n is a, c, g or t

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tccaggaaat acytgtctct ggaagataag actgtgaacc aactaaaata gcttacttat 180
caagactaac agcttactca tcaaaactcg tttcaagacc ctgcctcac tgtgcccacc 240
aatccaaagc tattatgtca taaactctgc ccaatcccaa ccagttcccc gccttgcaag 300
accacctta aatcaccca gcccgagccc taaaacccta taaataatcc tncctaatt 360
tttccatttt gagacactac taagactctg tatctatgtc aaggtgatgt tcttccttac 420

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 ctttttgggg agycgacagt 500

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 tcttcaatag aaagcatcaa acgacagttt atccccaaga ctctttgaaa cccttgccctc 240
 aaaaccctca ccttgctgtg tctgtgtcca ccaatcctaa actattatat catgatcctt 300
 acccaatcct aatcaagccc ctacattgaa agacctgcct taaatcagac tccaaaatct 360
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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 acncagtnaa ctgaaatata aaatgagact cngattttgn taaanattta tnattttgac 120
 cacatctaatt nattttctatc ttttrtcycaa ttatattaga ttatsagacc tacgcttctt 180
 tttactagta tcagcacttt tatttttnata tttwttttcc actcattttt aataaataan 240
 ngrnaaaatg caataaaata ktcatatant 270

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<222> (1)..(281)

<223> mer112

<220>

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<222> (64)..(64)

<223> n is a, c, g or t

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acttaccctt actatatgta atgcactctg atatttttcta ttctattcta ttctatttta 180

tttttttttaa aaaaaaatgc tgggtataac ccactaaatt gatttcataa cccactaatt 240

tttgggtcac racctgcagt ttgaaaaaca ctgctctaga a 281

<210> 303

<211> 519

<212> DNA

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<222> (1)..(519)

<223> mer113

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<222> (463)..(463)

<223> n is a, c, g or t

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attttatttta aaaggaaact ttatatcact accataaatg gaaaaccagt atcacttgcc 180

ataaatagaa ggtaaccata aaaataaatt acaatgaaaa caaaacaatg ttatttaaatt 240

ctagctagat actgttgccct gcctactgca aggctctgag cctgaggcct gctctctctt 300

tgttaaaaag agagattagc aagtgttaga gaggtgttaa agacatacta agcaccaaac 360

tgagactttc tccttgatgt aatcagaagg attgaaagag aattgaaaag ggaataactt 420

tctcactatg tgattcaatg ttattttaatg ccatatccat gtntaccta aaatcatctt 480

taaataccac cagtgggtaca tatcccacac tttgggaaa 519

<210> 304
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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 <222> (612)..(612)
 <223> n is a, c, g or t

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 <222> (628)..(628)
 <223> n is a, c, g or t

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 <222> (631)..(631)
 <223> n is a, c, g or t

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 aatattctct ctataggtgc tgaggtagct ggtaagctca gagcaaattc tactaaatgg 120
 argatattbt caattttaat ttttttttta ttgaaatgtg taaatatattc agcccaaata 180
 tttttatagg tattatcttt ttttgtctcc attcagaata cttttctttg acaaataattt 240
 ttacaagaca aaactcatca aataaattgt ctctatttat gattcttttg aatattttac 300

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caaatttaga tgctgcaaaa ttataggcct tctcaatttt attccattct agtacagaat	360
ataaatttat ccaattaaaa atagaagctc catcaaaaaga ttcttcccat aagttaagat	420
attccaaagt acaattatag aattatagaa ttccaaaatt aaatcttgta tacacatttg	480
agctctcatt atttaatttg ttcagttcct cccttgmttt tgtaggaata aatttcaatg	540
tctttctgtg tggcaagctt tgttttnaat aattacaatt ynctaaaact ttaaaaagct	600
gaantttttt gntctctatt tattgaanac nttgattaa gatttcca	648

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 <223> mer115

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 <223> n is a, c, g or t

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 <222> (284)..(284)
 <223> n is a, c, g or t

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 <222> (332)..(332)
 <223> n is a, c, g or t

<400> 305	
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ggggccaagg ggatatgccc accygaaayc catgcccccc tttctagacc acgctccagg 120
tacctgggac tccagaattc cctgtccana tagccccgag cctgcttcca gggccttctt 180
ccytthccct aggtctgtcc tccagagggg ggaccgtgcc accagtgtgg gcacccctag 240
gcctgagaga tggccaaggg gtagctgttt gtaggggggt tagntgtgga cagagcttgg 300
acatgcgggc tgggggtgtcc acatacatgc anaggaggcc ctttatggtg taggatggag 360
cygggggtgg gaagagaagg gggagtaggc cagggggccag gggctggctc tccccaggc 420
aggctgcat gttctggcat ggaactccaa ggagtctgag aattctaaat ttgaacctgg 480
ccttcagggt cattatgaag gtatatattgt caaggtagga gaatagaaca tattttaatt 540
taacagtttg ttagcttgat ttataacttt taaatattta gacatatggt atgtgggcct 600
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<212> DNA
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<223> mer117

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gtgattgatt agtgatgtct gccatgggca caggaggggg aagtagcagc anatatgcta 180

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tgtatttgcc atccctg

<210> 308
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 <212> DNA
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 <223> n is a, c, g or t

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 <222> (495)..(495)
 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 aatatgaatt gtttaatat gcaaaatggt cctcagctac catgtgcaac tgttgtgaat 180
 actgtgctaa tttgtgagta cctctggaac cacaaattgg aacatgaaga gaagcaagaa 240
 aatggacact tagcactact gggaaatgat actttgttaa gttatgcaag aatctattgc 300
 attcatgcta tctgaggaga ggaaggattt gacaagttaa ttaatttggt ttcttttctc 360
 ttacctaaagt gcttctgctg ctcaaactct ccctacactc taaagcagtg tctatctctg 420
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 agatcccaag tgacagaggt acccatgtgt tctttattta ataaatgtat gtgtgtttgt 660
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<210> 309
 <211> 508
 <212> DNA
 <213> Homo sapiens

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 <222> (1)..(508)
 <223> mer119

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 <222> (377)..(377)
 <223> n is a, c, g or t

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 atacctaaca gttcyattta ttaagtagtt aggtccaaac aacttaataa gtattttatgt 180
 cctaacaact tagtagccat ttgaaaaaat aatacacata aattgaaaga aaaaaaaaaa 240
 atatttttat ttcattctta aataaccaca attacttact aatgggatgt gtgtgcctgt 300
 tgggcactgc acaacttctc aaaccttgga atcagattgg aactgccac cctcatttcc 360
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 <211> 1126
 <212> DNA
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 <222> (1)..(1126)
 <223> mer11a

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 aatttcttat gcctgtcttt actgcaatct ctgaacataa attgtgaaga tttcatttta 180
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tattaataat taataacctg ggaaaggaat gcattcctgg ggggagggtct ataaacggcc	600
gctctgggaa tgtctgtctt atgcagttga gataaggact gaaatacgcc ctgggtctcct	660
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ygtgcaccgc tgaacataga cccttatcag tagttctgat tttgcccttg tcctgtttcc	840
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<220>
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 <222> (599)..(599)
 <223> n is a, c, g or t

<400> 311	
tggtgcggga agtcaggga cccaaacgga gggaccggct gaagccatgg cagaagaaca	60
tggattgtga agatttcatg gacatttatt agttcccca attataactt ttataatttc	120
ttatgcctgt ctttactgca atctctaaac ataaattgtg aagatttcat ggacacttat	180
cacttcccca atcaataccc ttgtgatttc ctatgcctgt ctttacttta atctcttaat	240
cctgtcatct tcrtaagctt catgagctga ggatgtatgt cgcctcagga ccctgtgatr	300
attgcgttaa ctgcacaaat tgtttgtaga gcatgtgtgt ttgaacaata tgaaatctgg	360
gcaccttgaa aaaagaacag gataacagca attgttcagg gaacaagaga gataacctta	420
aactctgact gccggtgagc crggcrgaac agagccatat ttctcttctt tcaaaagcaa	480
atgggagaaa tatcgctgaa ttctttttct cagcaaggaa catccctgag aaagagaatg	540
cgyacctagg ggtaggyctc tgaaatggcc cccctgggag tggcctgtct tttatggtn	600

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aaactgcagg gatgaaataa rccccagtct cccatagcgc tcccaggctt attaggawga	660
ggaaattccc gcctaataaa ttttggtcag accggttgtc tgctctcaa accctgtctc	720
ctgataagat gttatcaatg acaatgcgtg cccgaaactt cattagcaat ttttaatttcg	780
ccccggtcct gtggtcctgt gatctcgccc tgcctccayt tgccttgtga tattctatta	840
ccttgtgaag tacgtgatct ctgtgaccca caccctattc gtacactccc tccccttttg	900
aaaatcccta ataaaaactt gctgggttttt gcggcttgtg gggcatcacg gaacctaccg	960
acatgtgatg tctcccccg atccccagct ttaaaatttc tctcttttgt actctgtccc	1020
tttatttctc aagccagccg acrcctaggg aaaatagaaa agaacctacg tgattatcgg	1080
ggcaggttcc ccgata	1096

<210> 312
 <211> 1071
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(1071)
 <223> mer11c

<220>
 <221> misc_feature
 <222> (563)..(563)
 <223> n is a, c, g or t

<400> 312	
tgttgcggga agtcagggac cccaaacgga gggaccggct gaagccatgr cagaagaacg	60
tggattgtga agattttatg gacattttatt agttcccca attaataactt ttgtaatttc	120
ttatgcctgt ctttactgca atctctaaac ataaattgta aagatttcatt ggacacttat	180
cacttcccca atcaataccc ttgtgatttc ctatgcctgt ctttacttta atctcttaat	240
cctgtcagct gaggaggatg tatatcgctt caggaccctg taataattgc attaaactgca	300
caaattgtac agcatgtgtg tttgagcaat atgaaatgtg ggcaccttga aaaaagaaca	360
ggataacagc aattgttcag ggaataagag agataacctt aaactctgac tgccggtgag	420
ccaggcagaa cagagccata tttctcttct ttcaaaagca aatgggagaa atatcgctga	480
attctttttc tcagcatgga acatccctga gaaagagaat gcgcacctr gggtaggtct	540
ctgaactggc ccccctgggc gtngcctgtc tcttatggc gagactgcag rggtgaaata	600
gactccagtc tcccatagcg ctcccaggct tattaggaag aggaaattcc cgcctaataa	660
attttggtca gaccggttga tctcaaaacc ctgtctcctg ataagatgtt atcaatgaca	720
atggtgcccc aaacttcatt agcaatttta atttcgcctc ggtcctgtgg tcctgtgatc	780

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```

tcgccctgcc tccacttgcc ttgtgatatt ctattaccyt gttaagtact tgatgtctgt      840
caccacacac tattcgaca ctccctcccc ttttgaaaat ccctaataaa aacttgctgg      900
tttttgtggc ttgtggggca tcacggatcc taccaacgtg tgatgtctcc cccggatgcc      960
cagctttaa aatttctct tttgtactct gtccctttat ttctcaagcc agccgacgct    1020
tagggaaaat agaaaagaac ctacgtgatt atcggggcag gtcccccgat a              1071

```

```

<210> 313
<211> 897
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> repeat_region
<222> (1)..(897)
<223> mer11d

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<400> 313
tgtagggaga ccccctgaaa ctattgctac ggaataaaag atgaaatgct cctgattatt      60
gtaaatacaa aattgcatgc aggatttgtt aaagacaatg ccagggttga ctgccagaac    120
gagccaacag cgcgtgatgt gcttccccct gcagagagcc tatgaatgga cgtgcagtca    180
gggaggtttc acatcaccaa gattcctatc ccagaaaagc agatgttcat agctctggga    240
atggaatgcg acccttgtgg agagcctata aacggacgca tggggggcgc ctgtccatat    300
ggataagata gggctataaa cgccctcatc ttgccacggc tcttctaggc ctctttaggg    360
ttaaggcata ctcccttctg agaatttctg gtctaaccgg ttgtctagct tcacgtcctg    420
tttccatgga ttgtttgtaa ccagcttttg ttgcaattgt tactgctgat taatatcttg    480
ctaatacatag gttatggaaa gaytgtgttt ctgttttaag gctctgttag aaattactga    540
cgcacacact atattgtaaa ttcttatctc tgtatactgt acttctacat acaaattgtac    600
tgtacttcta catacaaatg ttatgttaaa gaattacttc atcccatgt gaccatctca    660
cctcataatc aaatgaccct aaatccctca ctaacctacc cccgccctca ctaaacttaa    720
taataaatgc tggtatatcc agtgcattgt tggcaccgtg ggaccagaag gcggtgaccc    780
ccctggaccc agctttcact atcttgtgtg tgtctattat ttctcaacct gccgatccgc    840
ctaggagcaa agagagagcc ccgttgcatt gcgggctgct ggccagatcc cgcaata      897

```

```

<210> 314
<211> 467
<212> DNA
<213> Homo sapiens

```

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<220>
<221> repeat_region
<222> (1)..(467)

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<223> mer1a

<400> 314

```

gctgcacagc aggaggtgag cggcgggcca gtgagcgaag cttcatctgt akttacagcc      60
gctccccatc actcgcatta ccgcctgagc tccacctcct gtcagatcag cgggtggcact    120
agattctcat aggagcgcga accctattgt gaactgcgca tgcgagggat ctaggttgcg    180
cgctccttat gagaatctaa tgcctgatga tctgtcgtg tctcccatca ccccagatg     240
ggaccgtcta gttgcaggaa aacaagctca gggctccac tgattctaca ttatggtgag     300
ttgtrtaatt atttcattat atattacaat gtaataataa tagaaataaa gtgcacaata    360
aatgtaatgc acttgaatca tcccgaacc atcccccccc cctgggtccgt ggaaaaattg    420
tcttcacga aaccgggtccc tggtgccaaa aagggtgggg accactg                 467

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<210> 315

<211> 337

<212> DNA

<213> Homo sapiens

<220>

<221> repeat_region

<222> (1)..(337)

<223> mer1b

<400> 315

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caggggtccc caacccccgg gccgcggacc ggtaccggtc cgtggcctgt taggaacygg      60
gctgcacagc aggaggtgag cggcgggcca gtgagcatta ccgcctgagc tccgcctcct    120
gtcagatcag cggcggcatt agattctcat aggagcgcga accctattgt gaactgcgca    180
tgcgagggat ctaggttgcg cactccttat gagaatctaa tgcctgatga tctgaggtgg    240
aacagtttca tcccgaacc atccccgcc cccgggtccgt ggaaaaattg tcttcacga     300
aaccgggtccc tggtgccaaa aagggtgggg accactg                 337

```

<210> 316

<211> 345

<212> DNA

<213> Homo sapiens

<220>

<221> rerpeat_region

<222> (1)..(345)

<223> mer2

<220>

<221> misc_feature

<222> (81)..(81)

<223> n is a, c, g or t

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```

<400> 316
cagtcggccc tccgtatccg tgggttccac atccgtggat tcaaccaacc gcggatcgaa      60
aatattcaga aaaaaaattg natgggtgcg tctgtactga acatgtacag acttttttcc      120
ttgtcattat tccctaaaca atacagtata acaactatit acatagcatt tacattgtat      180
taggtattat aagtaatcta gagatgattt aaagtatacg ggaggatgtg cgtagggtat      240
atgcaaatac tacgccattt tatatcaggg acttgagcat ccgcggattt tggtatccgc      300
ggggggtcct ggaaccaatc cccacaggat accgagggac gactg                        345

```

```

<210> 317
<211> 218
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> repeat_region
<222> (1)..(218)
<223> mer20

```

```

<400> 317
cagtggttct caaccggggg tgattttgcc cccagggga catttgcaa tgtctggaga      60
catttttggg tgtcacaact gggggggggg ratgctactg gcatctagtg ggtagaggcc      120
agggatgctg ctaaacaatcc tacaatgcac aggacagccc ccacaacaaa gaattatccg      180
gcccaaaatg tcgatagtgc caaggttgag aaaccctg                               218

```

```

<210> 318
<211> 798
<212> DNA
<213> Homo sapiens

```

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<220>
<221> rerpeat_region
<222> (1)..(798)
<223> mer20b

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```

<220>
<221> misc_feature
<222> (145)..(145)
<223> n is a, c, g or t

```

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<220>
<221> misc_feature
<222> (437)..(437)
<223> n is a, c, g or t

```

```

<220>
<221> misc_feature
<222> (525)..(525)
<223> n is a, c, g or t

```

30307CNT1.ST25

```

<400> 318
cagtgggttct caactaggat tgtattaccc cctaggggac atttggcaat gtctggagac 60
atTTTTTggt tgtcacaatg attggggggg rtgctactgg catttagtgg gtagaggcca 120
gggatgctaa acatcctaca agcantgcac aggacagtcc cccacaacaa agaattgtcc 180
tgcatcccac atgactttca aatgtcccac tagacattca tgtaggtgaa aaaacctgtt 240
tataattatc tgagcctaga acctaactct gttttacata taaacacaaa gtatTTTTTg 300
catagTTTTa atatacactg aattttctag gaatgcaact acvattgtat gtaaattgag 360
ggaagattgt actttgtttt gtttagaact ttaccaaaga gttgttcacc attttgaaa 420
atcatatcac taatggncaa tactcgctca tggatattga gttgccaata caacacacct 480
gtatcagtct gcatttgtag ctgtcacatt cacggtgatt ctatngtata ggtgcaagca 540
tctgactact tcattatgtc ttctagtgtg gtcatgcctg agcatttaca tattgaaata 600
catattatTTt tattataaat tacttttcctt ttttctcttt tatattacag ttagagcatt 660
atattgattt tttttaaaat taatgtgtat aggtaggTTa tattatctat gaatttcatt 720
tcaggataaa taaaagaggc attacaaaat atttgttata aaaaggggta ttgggtctga 780
tagggTTgag aaccactg 798

```

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<210> 319
<211> 933
<212> DNA
<213> Homo sapiens

```

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<220>
<221> repeat_region
<222> (1)..(933)
<223> mer21

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<220>
<221> misc_feature
<222> (226)..(226)
<223> n is a, c, g or t

```

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<220>
<221> misc_feature
<222> (580)..(580)
<223> n is a, c, g or t

```

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<220>
<221> misc_feature
<222> (608)..(609)
<223> n is a, c, g or t

```

```

<400> 319
gccctyctrt tkcagraaaa cctctctcaa accatgtttt ycctctgcts tcataccacg 60

```

30307CNT1.ST25

acaacagtcg tcaacacaga agacttctgt gaccaaagtgt gtggaggatt ttccccacac	120
accaagcagc agacaccagc tgggcgtcct ccaaytcagt tccgacactg tctacctgga	180
gatagcgtca gatccccacag gttgaggtct cagtcccca gactgncccc accttcagay	240
acagttgcaa gyccgggyct ctggaacttc tgaccaactg gcttcaartt ggggttccca	300
cgacacctct ttaggttcga ytaatttgct agagtggytc aaaaaactca rrgaaacact	360
tattawgttt actggtttat taatagatga ttttcaaag gatacagatg aagagataca	420
tacggggcgg tctggaagrk cccagcgcag gagcttccgt cytgatagrr ttgggggttac	480
accctccaga ttcttcacct tctgtyagcc tccacgtgtt cagctctcca gaagctcyct	540
gaaccctgtc ctttgggcct tttatggaga ytcattggn tgtccatgac tgaagcatgg	600
acgaytgnaa waatgtgatt ggrcaaaaag ggtctgatct aatcccagca aggyctgtcc	660
agattcttct tgggtctctt gtgcagcatt ccttcctcca gggatatggg caggaccycc	720
tctggaatga gggctcttacg acccacaatc agattataga gtcctgcctt gggcggmtga	780
aargaggrca rgagaaggyc agagaratat tctgtttcct gaggcctaaa gcacctctac	840
attatagcga aagactgtaa ccatggtcac gtgagttatg gacaagaacc atggacaaaa	900
acacatatat aatcatatcc cacctcccaa cgc	933

<210> 320
 <211> 795
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(795)
 <223> mer21b

<220>
 <221> misc_feature
 <222> (404)..(404)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (408)..(409)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (436)..(437)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (546)..(546)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (672)..(672)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (674)..(674)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (717)..(717)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (722)..(722)

<223> n is a, c, g or t

<400> 320

tcaacacaca acacttctgt caccaaactgt gtggrrrrttt ttccccacac acaaacaakt	60
cttcagttct gcggcggaca ccarctgggt gtcctccaat tcarttcagt tctgacacta	120
wctacctrga gatagcgta gatccacag gtttaagggc tcagtccac aagactgccc	180
ccacttcaga trccagtcgc aagtctrngt tktcaccgt acttctgacc aactggctat	240
aaattgttcc cacgaccct ctttaggttc gattaatttg ctagaatrgc tcacaraact	300
cagggaaaca cttatatatta ycggtttatt ataaaggata ttacaaagga tacagatgaa	360
caaccagatg aagagatrca tagggcgagg tmtgggagag tccnggggnc aggagcttcc	420
gtgccctctc tggstnnrcc accttccwgg cacctccacg tgttcaccaa cccggaagct	480
ctccgaaccc tgtccttttg ggtttttatg gaggcttcat tacgtaggca tgaytgatta	540
catcantggc cattgattat caactcaacc tycagcyct ctccyctccc cagaggttgg	600
agggtggggc tgaaagttcc aaccytctaa tctgccttgg tctttctr gc gaccagcycc	660
catccwgrag cntnctaggg gctgcccrrc akagatcgmc tcattagmac aaaagrnrt	720
ynctattacc caggarattc caagggtttt aggagytctg tgtcaggaac cgggggtcaaa	780
gaccaaatat tagat	795

<210> 321

<211> 1503

<212> DNA

<213> Homo sapiens

<220>

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<221> repeat_region
 <222> (1)..(1503)
 <223> mer22

<400> 321
 gtgatggctg cacgctcggg ccaggaagag gcggaggaag cccaccgctc ctgacattgg 60
 ccttctagga aaggcgggtg tgcattccac ctgcacttcc tctctgattc ttgagggccca 120
 accgcttcct ccgctcctgg ggaaagtgcc ttctagcacc gaatcttttg gctgccacgg 180
 atgtcagggg gccaacggga ctgggttttg gctgggtgca ggggaggttg cgtcaggggt 240
 actagccggc ggcgggctgg ggggtggggtg tactttgtcc aaactcccgg ctcctctggc 300
 gggcctccct gaacgtggcg tggactcgcg cacaggccct gtctcgcagg ttttcagggtg 360
 cgcttggtt ttcctccgct ttgtggggca ggtctccagt gccccggcg cacgcctgga 420
 catcactgtc cgtctcgtcg tcgcccctac ggcctcaaag acacacgctg cctgcatgtg 480
 ctcttggggg acgacagtgc acatgtggac aacttggtc cagctcggac tcgcctctgt 540
 ctctctttgc ccgtgtcgcc ggaagccgcc tcgggttgcc ggagccctcg ggccttgagg 600
 atgaaggcag gccctgtc ctgccaggaa ggaggaggc agtgggtca tgggtcgggtg 660
 cttttgcagc cgacagcacg tgcggccctg gggatcttcc tgtgccccgg cgagaccctt 720
 tccgcctcac tgcatggaa cccattccc gatcaccgc tgggatccat catcggactc 780
 caagaggagt ccgcgagcc agccggcacc ccgaagctc tccttcagcg ggaaccgaag 840
 cagaagagcg atcaaggagg tcctcaccac aggactccta tgggtccgac cctgggtctc 900
 ccgcaggccc ctctggcagt cctcttccca cccgccgcct cggcttcgcc gccgccgccg 960
 caacctccag caccgcccc caggccccgc agccgccgtc gccgccattt tttaaagggt 1020
 cgcagcctga ctctgcggag taaggggggg tggagcgggg ggtcgcctcg ccagcatgcg 1080
 cgagcccag ccgcccgttg ggtcacagt aaagccaccg ttgcccgggg atgggtccct 1140
 gacacttggg gaagtaggag ccctgtgtga tcgtgcgtct ggtctgggc tgagaccagt 1200
 cctggccagg gcagttacca ggacggtctc ggaggccggg attcgaggag ggtccagcag 1260
 caggaagaaa cccagggagg aagaaacctc agacagatcg ccggcgaggc agcgcgggat 1320
 cccagcctca ggcgtgcgcg gacggtgtgc ggggtgagtct cccaaaagt ggagcccttg 1380
 tgatgacgag cacagggtccg cctgcgtgcc cgtgggcggc tctctaccg gtggctctca 1440
 gtcgcggaga gcagaacccg cagcttcagg ggctgctgcg ggagggtgtt ccctgctgta 1500
 cgt 1503

<210> 322
 <211> 434
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(434)
 <223> mer28

<220>
 <221> misc_feature
 <222> (122)..(122)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (132)..(132)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (382)..(382)
 <223> n is a, c, g or t

<400> 322
 cagttgaccc ttgaacaaca tgggtttgaa ctgctgtggrt ccacttatac gcggattttc 60
 ttccatctct gccaccctga gacagcaaga ccaaccctc ctctctctca gcctactcaa 120
 cntgaagacg angaggatga agacctttat gatgatccac ttccacttaa tgaatagtaa 180
 atatattttc tcttccttat gattttctta ataacatttt cttttctcta gcttacttta 240
 ttgtaagaat acggtatata atacatataa catacaaaat atgtgttaat cgactgttta 300
 tgttatcggg aaggcttcca gtcaacagta ggctattagt agttaagttt tkggggagtc 360
 aaaagttata cgtggatttt tnactgcgcg gggggtcagc gcccctaacc cccgcgttgt 420
 tcaagggtca actg 434

<210> 323
 <211> 209
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(209)
 <223> mer3

<400> 323
 cagcgctgtc caatagaact ttctgtggtg atggaaatgt tctatatctg cgctgtccaa 60
 tacggtagcc actagccaca tgtggctayt gagcacttga aatgtggyta gtgcgactga 120
 ggaactgaat ttttaatttt atttaatttt aattaattta aatttaaata gccacatgtg 180
 gctagtggct accatattgg acagcgag 209

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<210> 324
 <211> 230
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(230)
 <223> mer30

<400> 324
 caggggtgtc caatcttttg gcttccttg gccacactgg aagaagaaga attgtcttg 60
 gccacacata aaatacacta acactaacga tagctgatga gctwaaaaaa aaaaaamaat 120
 cccamaaaaa tctcataatg ttttaagaaa gtttacgaat ttgtgttggg ccgcattcaa 180
 agccatcctg ggccgcgtgc ggcccgcggg ccgcgggttg gacaagcttg 230

<210> 325
 <211> 190
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(190)
 <223> mer30b

<400> 325
 cacgggtgtc caatcttttg gcttccttg gccacattgg aagaagaatt gtcttggggc 60
 acacataaaa tacactaaca ctaacgatag ctgatgagct aaaaaaaaaa ggtctgtgca 120
 taattttcgt gatatccacc accacagata agcaaaaaag tccttgcatt caaagggttg 180
 gacaccgctg 190

<210> 326
 <211> 483
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(483)
 <223> mer31

<220>
 <221> misc_feature
 <222> (99)..(99)
 <223> n is a, c, g or t

<400> 326
 tggtgacaaa gactctctcc ttgaccaaac tttagtcagg ctctcttgag ccctcttctc 60

30307CNT1.ST25

aactaagccc cgaccttggg cyctgtcctt ggcctgcwna gtccagtttt agcaagaatc	120
ctgctaagtc agtttagaga gaatcccca ccctcgatat ctgatcaggt tcctcatcct	180
ccgccatccc ccaggcgatg tctgatcacc ctggcctgcc ttcagcaaga atcctgttag	240
gtcagtttag cmagaatccc cctaccctg atgtytctc ttagtaattt tccatccact	300
gacccccacc ctgctccttg gctataaatc cccacttgct ctgctgtat tcggagttga	360
gcccaatctc tctcccctac tgcaaaatcc cattgcagtg gtccctgtac ctatcgcaat	420
ggctctgaat aaagtctgcc ttaccgtgct ttaacaagtg tcgttgaata attttctctg	480
aca	483

<210> 327
 <211> 485
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(485)
 <223> mer31a

<400> 327	
tgacaaagat tctctgcttg accaaacttt agtcaggctc ctgaaccttc tcctaggccc	60
atctgtgcac ttccttgtaa aatccagttt tagcaaagaa ccctgctaag tcagtttagc	120
magaaccccc cacccttgat atctgatcac cctcaatatc tgatcggggt cctcatcctc	180
caccatcccc caggtgatgt ctgatcacc tggcctgtct tcagcaagaa tcctgttagg	240
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acgaaaaaaaa gaatgtaaaa tatctcatta ataattttta tattgattac atgttraaat	180
gataatatatt tggatatatt rggttaaata aaatatatta ttaaaattaa tttcacctgt	240
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aatacgccca gagtattctc cgtaacaaac tcttgcccta caggagaaaa tactttgcca 480
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ataccttacc accacatcaa caggggtcca gtataataac aatggattac agctgaaaga	720
actgcaaaac mcagactcta tttaagaagg agctnctagg gaaacccaaa gacaggagag	780
gagacaaaaa caaggacacc ggagtraagt ttagcctctg acacctacag ctacagcaaa	840
cagtaaacac agtctaactc ttagccagat aaacataaaa cctcacatta aaggcctatt	900
tacttcagtt ccttttacc agtacatcat gtccggcttt caacaaaaaa ttacaaggca	960
tactaaaagg caaaaaaaaa aaacacagtt tgaagagaca gagcaagcat cagaaccaga	1020
ctcagatatg acagggatgt tggaattatc agactgggaa tttaaataa ctatgattaa	1080
tacgctaagg gctctaattg aaaaagtgga caacatgcaa gaacagatga gtaatgtaag	1140
cagagagatg gaaactctaa gagaagaatc aaaagaaaac gctagaaatc aaaacat	1197

<210> 335
 <211> 1536
 <212> DNA
 <213> Homo sapiens

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 <223> 11mcc_5

<220>
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 <223> n is a, c, g or t

<220>
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 <222> (513)..(514)
 <223> n is a, c, g or t

<220>
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 <223> n is a, c, g or t

<220>
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 <222> (525)..(525)
 <223> n is a, c, g or t

<220>
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 <222> (556)..(557)
 <223> n is a, c, g or t

<220>
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<222> (567)..(567)
<223> n is a, c, g or t

<220>
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<222> (575)..(575)
<223> n is a, c, g or t

<220>
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<222> (585)..(586)
<223> n is a, c, g or t

<220>
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<222> (589)..(589)
<223> n is a, c, g or t

<220>
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<222> (689)..(689)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (692)..(692)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (709)..(709)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (711)..(711)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (718)..(718)
<223> n is a, c, g or t

<220>
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<223> n is a, c, g or t

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<222> (731)..(731)
<223> n is a, c, g or t

<220>
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<223> n is a, c, g or t

<220>
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<222> (768)..(768)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (917)..(917)
<223> n is a, c, g or t

<220>
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<223> n is a, c, g or t

<220>
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<223> n is a, c, g or t

<220>
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<222> (988)..(989)
<223> n is a, c, g or t

<220>
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<222> (1336)..(1336)
<223> n is a, c, g or t

<220>
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<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (1347)..(1347)
<223> n is a, c, g or t

<220>
<221> misc_feature
<222> (1482)..(1482)
<223> n is a, c, g or t

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<400> 335
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gctcccatcc taacaatrag aaaaaaagcc agataatcta caaaatyata cttttcttga      120
gcccatcaga gagctgaggt cacaaggcaa ccaagtaaac tgaattccaa agagtgacaa      180
gccctccaa ggagaracag gacacaygaa ctgtttcacc tttggcagag cataggagga      240
agaggtggcc accataaaag caggttaagaa gaaatcagct aaaattttaa taaattctta      300
aaggccaagt gtgggctagt gtgwcagttt agaaagctgg gagccccaga cacaaggga      360
gtttgcactc acttgcaagc tcttttccat gggcctccac caggtgctca tgagaaagac      420
tgggggcagg gcaggagact gaagaaagcc ctcctcagkg gcacaggcat gcaggaggtg      480
atcggctgcn gctgggggac aggaacgaag ccnncctcat nttcncagaa ctttcttycc      540
yaaagcaaaa gccttnngct rctgggntga saggnagcaa acccnnttnc tcccagggcc      600
kwrgrcaara cactmtwsyt tytysrgaag mggtargagc yaaaccwtct gattctgggg      660
gaagaacaga agcaaaagcc ttctscycny gngraagggc agrraacwnt ntyaggynca      720
ggatnntgca ntgatacaaa ncagaggtcw gctactactg ggagaggnac aggtcccatc      780
ccaaccacag atacaaggag agtttgactg ccatggagag aggggcagga aactgagaa      840
agccccactc ctgaggcca ggcgcacagg gcctgcctaa gactgaggct ggaccaggac      900
aacagagaac atccctnctc ccaccacaag cctaacaagc ,accaagtaac amagcaacag      960
cagtctacca ctgggggagg gnnannanna tggagagaga ctccctctgt ggcacaggta     1020
tgcagggact actgaaagct gaggggtggag caggaacact gagaaaaacc ctctagcaaa     1080
ccagcccca cactaagcac aaggtaacag cagcccacca ctagaggaat ttgaagcctg     1140
tggtgactg arggtaacca tagcaacaac aaaacccaaa ccagctcaa ctcctgacta     1200
gattgactca acccccacac taaaagccta gcagaagaaa aggcattgcc atttccaggc     1260
ataaatacta ttacctcag tctctactgt tcttctacac ataattgtctr gcattcaata     1320
aaaaattaca agacananaa aaaaagnaaa aaaaaacaac ccattgtcaa gagacaaagc     1380
aatcaacaga accagactca gatatgacac agatgttggg attatcagac aaagaattta     1440
aaataactat gattaatatg ttaaaggatc taatggaaaa anggtagaca acatgcaaga     1500
acagatgggt aatttcagca gagagatgga aactat                                1536

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<210> 336
<211> 971
<212> DNA
<213> Homo sapiens

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<220>
<221> repeat_region

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<222> (1)..(971)
 <223> 11md1

<220>
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 <222> (927)..(927)
 <223> n is a, c, g or t

<400> 336
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 attaaaaaat gggcaaaaga catgaagaga catttcacca aagaagatat acaaattggca 120
 aataagcaca tgaaaagatg ttcaacatca ttagctatta gggaaatgca aattaaaacc 180
 acaatgagat atcactacac acctattaga atggctaaaa taaaaataa tgacaayacc 240
 aaatgctggc gaggatgtgg agaaactgga tcactcatac attgctggtg ggaatgtaaa 300
 atggtacagc cactctggaa aatacttttg cagtttctta taaagctaaa catacamtta 360
 ccatatgact cagcaattay actcctaggt atttatccca gagaaatgaa aacttatggt 420
 cacacaaaaa cttgtacacg aatgttyata gcagctttat tcataatagc cmaaaactgg 480
 aaacaaccca gatgtccttc aacgggtgaa tgggttaaaca aactgtggta tatccatacc 540
 atggaatact actcagccat aaaaaggaat gaactattga tacatgcaac aacctggatg 600
 aatctccaga aaattatgct gagtgaaaaa agccagtctc aaaagggttac atactgtatg 660
 attccattta cataacattc ttgaaatgac aaaattwtag arwtgragar cagattcctg 720
 gttgccaggg gttagggacg ggggtggggg tggagggagg tgggcatssst ggagttccct 780
 gtggtgatgg aaatgttctg tatcttcact gtatcaatgt caatatcctg gttgtgatay 840
 tgtactatag ttttgaaga tgttaccatt gggggaagct ggatgaaggg tacacgggat 900
 ccctctgtat ttttcttac aattgtntgt gagtgtgtaa ttatttcaaa ataaaaagtt 960
 taatttaaaa a 971

<210> 337
 <211> 1088
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(1088)
 <223> 11md2

<220>
 <221> misc_feature
 <222> (840)..(840)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (920)..(920)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (1044)..(1044)
 <223> n is a, c, g or t

<400> 337
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 aataagcaca tgaaaagatg ttcaacatca ttagctatta gggaaatgca aattaaaacc 180
 acaatgagat atcactacac acctattaga atggctaaaa taaaaataa tgacaayacc 240
 aaatgctggc gaggatgtgg agaaactgga tcactcatac attgctggtg ggaatgtaaa 300
 atggtacagc cactctggaa aatagtttgg cagtttctta taaagttaaa catacamtta 360
 ccatatgacc cagcaattay actcctaggt atttatccca gagaaatgaa aacttatggt 420
 cacacaaaaa cttgtacacg aatgttyata gcagctttat tcataatagc cmaaaactgg 480
 aaacaaccca gatgtccttc aacgggtgaa tggtaaaca aactgtggtg tatccatacm 540
 atggaatact attcagccat aaaaaggaat gaactattga tacatgcaac aacctggatg 600
 aatctcaaga acattatgct gagtgaaaaa agccagtctc aaaagggttac atactgtatg 660
 attccattta tatarcattc ttgaaacgac aaaactatag agatggagaa cagattagtg 720
 rttgccaggk gttagggatr caggraggag gtggatgtgr ytataaarrg gtagcatgag 780
 rgaatyttta tggatgatga acwgttctgt atcttgaytg tgggtgrtggg tacacgaatn 840
 tatacatgtg ataaaattgc atagaactaa atayryryry rataagtaca agtaaaactg 900
 gcgaaatctg aataagatwn atggrttgta ycaatgtcaa twtcctgggt ktgatattgt 960
 aytatagttt tccaagatgt taccattggg ggaagctagg tgaagaacac acgggatccc 1020
 yctgtattat ttcttacaat tgtntgtgag tktayaatta tttcaaaata aaaagtttaa 1080
 tttaaaaa 1088

<210> 338
 <211> 1604
 <212> DNA
 <213> Homo sapiens

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 <222> (1)..(1604)
 <223> l1md_5

<220>
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 <222> (959)..(959)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (1352)..(1352)
 <223> n is a, c, g or t

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 ttctctccgc taagtacaac taaaaaccct ggacattata tataaaacaa acataagaag 120
 actctgaaag gtggagagaa gaaggcagac cggctaggga cctcgggacc cgaggaacga 180
 cacggtagtg agttccctgg gttttctttt tgcctcatat atcccagact tggagctgaa 240
 gaagccggca acccggaac gccaacgggc acagacaaaa aaagcccca caaaagcctg 300
 ctctctctag ccaaaggacc aggaaagggg cagcctagca agacagaaaa cttttagaca 360
 ataaccgctc tactccagcc aaacaccaca gaaaaaactg tggccccacc cccaccacg 420
 ccagcaaagg ccgagtgggg agcctagact tccaccctca ccaggctgta acgaggcgcc 480
 ccaacacctc caccgggatg gtgtcagaga aggccaaagta gggagctggg actttcatcc 540
 ccgccaggcg gtaatgaggc ccmccctccc cttgccmctg cgggtgtcagt ggagaccacg 600
 tggggagcct ggacttccac ccccaccggg cagtaatgag gcgcccctcc ccctccctac 660
 tggggtggtg tcagaggagg cctagtggag agtcgggact ttcaccaccg cccagcggtg 720
 atgaagccac ctctctctct tgccmccatg gtgtcagtgg aggccacgtg gggagcagta 780
 atgaggcact cctaccctc ccagccaggg aggtatcagc ggaggcctag tggggagccg 840
 aactcccacc cccgccagc agtaacgagg agcccctccc tcacctcggg tgtcaacgga 900
 ggccgagtgg ggaacctgga cttctacccc cacctggcag taatgaggca gcgcccctnc 960
 ccctcycctg ccggagcggg gtcagaggaa gccggctaaa acagaagggtt taaataagat 1020
 ccagagtctc ataacataat acccaaatg tccagggtttc aatcgaaaat cactcgatcat 1080
 accaagaacc aggaaratct caaactgaat gagaaaagac aatcaataga cgccaacacc 1140
 gagatgacag agatgttaga attatctgac aaagatttta aagcagccat cataaaaaat 1200
 gcttcaataa gcaattacga acgtgcttga aacaagaraa aagtagaaaag cctcagcaaa 1260
 gaaatagaaa gtctcagcaa agaaatagaa gatataaaga agaaccaaat ggaaatttta 1320
 gaactgaaaa atacaataac cgaaataaaa anctcaatgr atggggtcaa tagcagaatg 1380
 gaggggacag aggaaagaac cagtgaactt gaagatagag caacagaaat taccattct 1440
 gaacaataga gagaaaatag attggaaaaa aaaatggaca gagcctcagg gacctgtggg 1500

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actataacaa aagatctaac attcgtgtca tcggagtccc agaggagagg aaaaagagrr 1560

tagtatttga agaaataatg gctgaaaatt tcccaaattt ggca 1604

<210> 339
 <211> 503
 <212> DNA
 <213> Homo sapiens

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 <222> (1)..(503)
 <223> 11mde_5

<220>
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 <222> (108)..(110)
 <223> n is a, c, g or t

<220>
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 <222> (112)..(112)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (269)..(269)
 <223> n is a, c, g or t

<220>
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 <222> (289)..(289)
 <223> n is a, c, g or t

<220>
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 <222> (290)..(290)
 <223> n is a, c, g or t

<400> 339
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 accaggtggc accagcaaga gggatcctgc cacaacaagc agcctggnnn ancctggaag 120
 cactctcttt ccccatgggc ctgagactcc cctcccctac ccagagacac caggtatgcy 180
 aggcagcact agcaaggggg atcctgccac aacaagcacc tagcccagga agcctcttta 240
 tcccatggg cctgggagac tcccttcnc acccacatcc cctcccctnn cccacctag 300
 agacaccagg cagcctggcc tggggaagct ccttctgccc cctcaggcag caccagcagg 360
 gaccagtggg agccccagta gcaccagata aaccaagcag accaaaatag cactgcaaag 420
 gctctgaaaa ttaaactgtc attggaacca cagcccacaa aaggtaggcc aggacctaca 480

tgctaaacct aaacaggggtg act

503

<210> 340
 <211> 1089
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> l1melb_5

<220>
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 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (670)..(670)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (765)..(765)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (1003)..(1003)
 <223> n is a, c, g or t

<220>
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 <222> (1058)..(1058)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (1065)..(1065)
 <223> n is a, c, g or t

<400> 340
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 aacaactata aactctggac aaaatacaaa aaacaactac ttgaaggcac tggagagtga 120
 ccaaaagcag gcagaaactg gaggggagtc gacacctgga agaaggggaat wgcacggagt 180
 gagttcccat ttctacggct ttttgccctga gagcaggccg cagttggtgc gtcgtacaga 240
 tggctaaaac wtcagtagaa aacccgcggt cttactggct tgaagaacca gagaanagaa 300
 ttcggggcaa ccacagccac tggaaagtga ggggaaaatc ccggaaagga gagagccaga 360

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gagaggatcc ccaaattctg tgtataaact ctgcccaaat ctctggctga cccctgaacc	420
acgcatgctg ggagcagact ccaagcagcc cagctaaaga caaaagaact gaactgagat	480
tggagctgcc gcccaagaaa cagagtttgc agttcgagtc cagccaagyt aactgcctac	540
taaaacaaaa gaaacaacac tcttttagaga aaaataacag aatccagagt ctccacaatk	600
taacattcat gatgtccagg atacaatccc aaaattatac magataagaa gaaacagraa	660
aaatgtaatn catccttaag agaaaagaaa ataaaaaccg accctgagat raaccagatg	720
ttggaattaa cagacaagga ctttaaagca rctattataa atatnttcaa tgaaataaaa	780
caaaatatgc tcacaatgaa taaaaggata ggaaatctca gcagagaaat agaaacgata	840
aaaagaacca aatggaaatt ctagaamtga aaaatataat atctgaaaca aaaaattcac	900
tgaatagact taacagcaga atggagatga cagaggaaag agtcagtga cttaaagata	960
gatcaataga agttatacaa tctgaagagc agagagaaaa awnatttawa aaaaaagwgm	1020
akagtctcac aaacatgtgc gacaatatca aaaggtcnaa catanatgta attggaatcm	1080
cagaaggag	1089

<210> 341
 <211> 911
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(911)
 <223> 11me2

<220>
 <221> misc_feature
 <222> (647)..(647)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (708)..(708)
 <223> n is a, c, g or t

<400> 341	
cttgtatcca gaatatataa agaacgccta caactcaaca ataaaaaac aaacaaccta	60
attaaaaaat gggcaaaaga cttgaatagg catttcacca aagaagatat acagatggcc	120
aataagcaca tgaaaagatg ctcaacatca ttagtcatca gggaaatgca aattaaaacc	180
acaatgagat accacttcac acccactaga atggctaaaa ttaaaaagac cgacaayaac	240
aagtaytggc gaggatgtgg agcaactrra actcycatac attgctggtg ggaatgtaaa	300
atggtacaac cactttggaa aayagtttgg cagtttctca aaaagttaaa cacgcaccta	360

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ccctatgacc cagcaattcc actcctaggt atttacccaa gagaaatgaa aacatatgtc 420
cacacaaaga cttgtacaag aatgttcata gcagctttat tcataatagc cmmaaagtgg 480
aaacaaccca aatgtccatc aacaggagaa tgaataaaca aattgtggta tatccataca 540
atggaatatt actcagcaat aaaaaggaat gaactaytga tacacgcaac aacatgaacg 600
aatctcgaaa acattatggt gagcgaaaga agccagacac aaaagantac atactgtatg 660
attccattta tatraaattc wagaacaggc aaaactaatc tataatgnta gaaatcagaa 720
tagtggttgc ctctggkgag ggtraatgac tggraagggr catgaggga ttttctgggg 780
tgatggaaat gttctatatc ttgatcgggg tgggtggttac acgagtgtat acatttgtca 840
aaactcatcg aactgtacac ttaaaatctg tgcattttac tgtatgtaaa ttatayctca 900
attttaaaaa a 911

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<210> 342
<211> 909
<212> DNA
<213> Homo sapiens

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<220>
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<222> (1)..(909)
<223> 11me3a

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<220>
<221> misc_feature
<222> (647)..(647)
<223> n is a, c, g or t

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<220>
<221> misc_feature
<222> (657)..(658)
<223> n is a, c, g or t

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<220>
<221> misc_feature
<222> (705)..(705)
<223> n is a, c, g or t

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<400> 342
cttgatcca gaatatataa agaacgccta caactcaaca ataaaaaac aaacaaccta 60
attaaaaaat gggcaaaaga cttgaatagg catttcacca aagaagatat acagatggcc 120
aataagcaca tgaaaagatg ctcaacatca ttagtcatca gggaaatgca aattaaaacc 180
acaatgagat accacttcac acccactaga atggctaataa ttaaaaagac cgacaayaac 240
aagtaytggc gaggatgtgg agcaactrra actcycatac attgctggtg ggaatgtaaa 300
atggtacaac cactttggaa aayagtttgg cagtttctac aaaagctaaa cacgcgccta 360

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ccctatgacc cagcaattcc actcctaggt atttacccaa gagaaatgaa aacatatgtc 420
cacacaaaga catgtacaag aatgttcata gcagcattgt tcataatagc caaaaagtgg 480
aaacaacca gatgtccatc aacaggagaa tgaataaaca aattgtggta tatccataca 540
atggaatact actcagcaat aaaaatgaat gaactaytga tacacgcaac aacatgaacg 600
aatctcgaaa acattatgtt gagcgaaaga agccagacac aaaagantac atactgnntg 660
attctatttg cataaaatac aaaaccaggc aaaactaatc aatgntgtta gaagtcagga 720
tagtggttgt tctgggaata gtaatgactg taaggrarca tgagagggtt ttctgggggtg 780
ctggtaatgt tctgtttctt gatctgggtg ctggttacac ggctgtgttc artttgtgaa 840
aattcatyaa gctgtacact tatgatwtat gcayttttat gtatgtatat tatayytcaa 900
taaaaaaaaa 909

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<210> 343
<211> 596
<212> DNA
<213> Homo sapiens

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<220>
<221> repeat_region
<222> (1)..(596)
<223> 11me4

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<220>
<221> misc_feature
<222> (121)..(121)
<223> n is a, c, g or t

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<220>
<221> misc_feature
<222> (435)..(435)
<223> n is a, c, g or t

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<220>
<221> misc_feature
<222> (455)..(455)
<223> n is a, c, g or t

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<220>
<221> misc_feature
<222> (475)..(476)
<223> n is a, c, g or t

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<220>
<221> misc_feature
<222> (478)..(478)
<223> n is a, c, g or t

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<400> 343

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tttggcaata tctatcaaaa tcacacatac atttaccctt tgacycagca atcccacttc      60
taggaattta tcctacagac atacttgcaa catgtacaaa atgacatata tacaaagtta      120
ntttattgca gcattatttg taatagcaaa aaaytggaac caacctaaat gtccatcaat      180
aggaaaatgg ttaaataaat tatggtatat ccatacaatg gaatactatg cagctataaa      240
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ggtggctggg ggacatgtgg gatggacagg gatgggaggg actgactttt cactgtatac      540
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<210> 344
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<212> DNA
<213> Homo sapiens

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<223> n is a, c, g or t

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<220>
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<223> n is a, c, g or t

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<220>
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<223> n is a, c, g or t

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<223> n is a, c, g or t

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 tggagctgcc gcccaagaaa cagagtttgc agttcgagtc cagccaagat aactgcctac 540
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 <212> DNA
 <213> Homo sapiens

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 <223> l1mec_5

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<223> n is a, c, g or t

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<223> n is a, c, g or t

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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 aaacaacggt tttcaagaca ttgracatca ggcagcgmag gacagcgatc cctgrgagaa 180
 gggaaacgaa tgagggtgagc cctrtgatcg ccycagctta ctgcctkgag atagttttcca 240
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ataagccaac	aaaggagata	aaacggaatc	ataaaaaata	cccaattaat	ccaaaaaag	2160
gcanwaaaaa	aaaaatggaa	caaagaamag	atgggacaaa	tagaaaacaa	atagcaarat	2220
gatagattta	aaccaacca	tatcaataat	tacattaaat	ataaatgggc	taaacgctcc	2280

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 <212> DNA
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 <223> 11p2_5

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<210> 347
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 <223> l1p5a1

<220>
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 <223> n is a, c, g or t

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 aaccacaga ccaggagatt ccctcgggtg cctacaccac cagggccctg ggtttcaagc 360
 aaaaaactgg gcagccgttt gggcagacac cgagctagct gcaggagttt ttttttttcg 420
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ctgatggagc tgaaaaacac agcatgagaa cttcgtgaag catacacaag tatcaatagc 1680
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<223> n is a, c, g or t

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<223> n is a, c, g or t

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wctgctgccg ctgtgaatgc scacagggag gcaggcacc cgcacccgc tagtaccccc	1260
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tcggagtgtt gtggccagtg gaccgggaac acctcggncc cyccagcgca gcaggttcct	1440
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acacagccca ggagtgctga gctgagcctt ggncccccta aatcttccag aaacgaancc	1560
agtcaactga acccacctta taccacaatc aaacccccaa gggcatcaaa gaagatraaa	1620
gaaaaaaaaa ycatccaaag gacagcaact tcaaagattg aaggaacatc agcccacama	1680
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tscaaatgac tgcaytastt cyycagcaak ggttcktaac taggctgaaa tggctgaaat	1800
gncagaaatg gaattcagaa tatggatagg aatgaagatc atcaagattc aggagaamgt	1860
cgaaacccaa tccaaggaak ctaaggaatc acaataaaac gatayaggag ctgamagaca	1920
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 <223> l1pa15_5

<220>

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 <222> (60)..(60)
 <223> n is a, c, g or t

<220>
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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (1428)..(1428)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (1695)..(1695)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (1729)..(1729)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (1763)..(1763)
 <223> n is a, c, g or t

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 ccataatcgt gaaggacacc ccagatccta gggaggagaa tgtnggcaaa cagcccctat 180
 gatggcgtcc agctgataaa agtgagtga gccccagtac gcgagagagg cagagagtct 240
 ccctctgtga ctactttttc cactggggat ccgagcaacc caggccaagg gagaacactt 300
 tgttttctccc aagccctgga gctaactggt ggagaggctt ggagatgctg tgagggaag 360
 acaccgggaa aagctgcaga ctttttccca gacctaggam caagagcagg atgccatttt 420
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30307CNT1.ST25

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catttttagtc tcaggccaga gattggagcg cctgctctgg agtagggtag gggcctccac 540
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aaaaaacct actncatgg aaataattac aaaaattaga agtgccagna tctccagatg 1740
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ggcaaagaat tcaaagcatg gatt 1884

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<210> 354
<211> 893
<212> DNA
<213> Homo sapiens

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<220>
<221> repeat_region
<222> (1)..(893)
<223> 11pa2

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aaaaaacaca tgaagaaatg ctcacatca ctggccatca gagaaatgca aatcaaaacc	180
actatgagat atcatctcac accagttaga atggcaatca ttaaaaagtc aggaaacaac	240
aggtgctgga gaggatgtgg agaaatagga acacttttac actgttggtg ggactgtaaa	300
ctagttcaac cattgtggaa gtcagtgtgg cgattcctca gggatctaga actagaaata	360
ccatttgacc cagccatccc attactgggt atatacccaa aggactataa atcatgctgc	420
tataaagaca catgcacacg tatgtttatt gcggcactat tcacaatagc aaagacttgg	480
aaccaacca aatgtccaac aatgatagac tggattaaga aaatgtggca catatacacc	540
atggaatact atgcagccat aaaaaatgat gagttcatgt cctttgtagg gacatggatg	600
aaattggaaa tcatcattct cagtaaaacta tcgcaagaac aaaaaacca acaccgcata	660
ttctcactca taggtgggaa ttgaacaatg agatcacatg gacacaggaa ggggaatatc	720
acactctggg gactgtgggt ggggtggggg aggggggagg gatagcattg ggagatatac	780
ctaattgctag atgacgagtt agtgggtgca gcgcaccagc atggcacatg tatacatatg	840
taactaacct gcacaatgtg cacatgtacc ctaaaactta aagtataata aaa	893

<210> 355
 <211> 892
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(892)
 <223> l1pa7

<400> 355	
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aacaacaya tgaaaaaaag ctcacatca ctggctatta gagaaatgca aatcaaaacc	180
acaatgagat accatctcay gccagttaga atggcgatca ttaaaaagtc aggaaacaac	240
agatgctgga gaggatgtgg agaaatagga atgcttttac actgttggtg ggagtgtaaa	300
ttagttcaac cattgtggaa gacagtgtgg cgattcctca aggatctaga accagaaata	360
ccatttgacc cagcaatccc attactgggt atatacccaa aggattataa atcattctrc	420
tataaagaca catgcacacg tatgtttatt gcagcactat tcacaatagc aaagacttgg	480
aaccaacca aatgcccac aatgatagac tggataaaga aaatgtggca catatacacc	540
atggaatact atgcagccat aaaaaaggat gagttcatgt cctttgcagg gacatggatg	600
aagctggaaa ccatcattct cagcaaaacta acacaggaac agaaaacca acaccgcatg	660

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ttctcactca taagtgggag ttgaacaatg agaacacatg gacacaggga ggggaacatc	720
acacaccggg gcctgtcggg ggggtggggg ctaggggagg gatagcatta ggagaaatac	780
ctaattgtaga tgacgggttg atgggtgcag caaaccacca tggcacatgt atacctatgt	840
aacaaacctg cacgttctgc acatgtatcc cagaacttaa agtataataa ta	892

<210> 356
 <211> 606
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(606)
 <223> l1paxx_5

<220>
 <221> misc_feature
 <222> (523)..(523)
 <223> n is a, c, g or t

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ctgactaggc agctggcatg acccatggag aggaaggaag agcagtgtgg tgtggcggcc	180
cacctgagag ccacacgggg caggggagcc cccaccccc agccaaggga ggcagtgagt	240
gagcatgcta cccagcctgg gaaaccgtgc tttttccacg gaactgtgca acccatggat	300
crgaagatcc cactcrtgaa cccacrccac cagggcctag sgtcccaacc ccggagctgt	360
gcagattctc aacagcctct cagctggaat ctgcttaagc ctaccgagct cccgggggga	420
ggggcgacca gcaccacagc tgcagctgcc tgctgtctaa gccatttgag ctccttgggg	480
gaggggcagc agccagcact gggactcaca actgcctaac acnctaagct ccctgggcag	540
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gaggct	606

<210> 357
 <211> 902
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(902)
 <223> l1pb1

<400> 357

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aacaagcata tgaaaaaatg ctcaacatca ctaattatca gggaaatgca aatcaaaacc      180
acaatgcrat accatcttac tcctgcaaga atggccataa ttaaaaaatc aaaaaataat      240
agatgttggc gtggatgtgg tgaaaaggga acacttytac actgctggtg ggaatgtaaa      300
ctagtacaac cactatggaa aacagtatgg agattyctta aagaactaaa agtagaacta      360
ccatttgatc cagcaatccc actactgggt atctacccar argaaaakaa gtcattatay      420
gaaaaagaya cttgcacacr catgtttata gcagcacaat tyrcaattgc aaaaatatgg      480
aaccaacca aatgcccac c aatcaayrag tggataaaga aaatgtgrta tatatatacc      540
atggaatact ackcagccat aaaaaagaat gaaataatgg catttgacgc aacctggatg      600
garytggaga cyattattct aagtgaagta actcaggaat ggaaaaccaa acatyrtatg      660
ttctcactta taagtgggag ctaagctatg aggatgcaaa ggcgtaagaa tgatacaatg      720
gactttgggg actcgggaga tcgggrgaaa ggggtggagg ggggtgaggg ataaaagact      780
acaaattggg tacagtgtac actgctcggg tgatgggtgc accaaaatct cacaatcac      840
cactaaagaa cttattcatg taaccaaaca ccacctgttc cccaaaaacc tattgaaata      900
aa                                                                           902

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<210> 358
<211> 897
<212> DNA
<213> Homo sapiens

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<220>
<221> repeat_region
<222> (1)..(897)
<223> 11pb3

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aacaagcata tgaaaaaatg ctcaacatca ctaattatca gggaaatgca aatcaaaacc      180
acaatgcrat accatcttac tcctgcaaga atggccataa ttaaaaaatc aaaaaataat      240
agatgttggc gtggatgtgg tgaaaaggga acacttytac actgctggtg ggaatgtaaa      300
ctagtacaac cactatggaa aacagtatgg agattyctta aagaactaaa agtagaacta      360
ccatttgatc cagcaatccc actactgggt atctacccar argaaaakaa gtcattatay      420
gaaaaagaya cttgcacacr catgtttata gcagcacaat tyrcaattgc aaaaatatgg      480
aaccaacca aatgcccac c aatcaayrag tggataaaga aaatgtgrta tatatatacc      540

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atggaatact ackcagccat aaaaaagaat gaaataatgg catttgcagc aacctggatg	600
garytgagaga cyattattct aagtgaagta actcaggaat ggaaaaccaa acatyrtatg	660
ttctcactta taagtgggag ctaagctatg ggtatatacg ggcatataga gtggtataat	720
agacaytgga gactcaaaag gtggagggta ggagaggggt gagggatgaa aaattaccta	780
ttgggtacaa tgtwcactat tcgggtgatg ggtacactaa aagcccagac ttcaccacta	840
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<210> 359
 <211> 2247
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> l1pba_5

<220>
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 <222> (6)..(6)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (764)..(764)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (1819)..(1819)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (1835)..(1835)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (1839)..(1839)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (1880)..(1880)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (1972)..(1973)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (2136)..(2136)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (2173)..(2173)

<223> n is a, c, g or t

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tataycaaga aagccgagag aatycacaga ccctctgaag gaagcagatt gctcctgcar	180
gayccaggaa acggcccaaa aactgtgagt gcccaaagtg tgagaagggrr aaaatctgcc	240
cccgaacaca catcctyact ggggaacctg aagatccaga tcacaggaga aggatttgac	300
cttacctgga gctgagacaa tttagagggc cgagcaaaat acaggggtag aggaagcagt	360
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gggggtccctg gggagggctg ccagwggaaac tggggaaagg ccacaggag aaggaaacct	480
ccagctgaac tttgtaacaa ttccgaccga acgcgaagtt tcctggccag aactcagggg	540
agggcgtagaa tccggwgtgc agactcagca cagaagccgt ggcaggcagg aggcgcgaag	600
cctgaaagcc ctgcttgctt tctcagcwgg gaggctggta gcctggggca agttctcagc	660
cctgctcacc aactgcctgg aaataaactc ggtgctgttg tgggggggca cggtgggagt	720
gagaccggcc ttttkggttg catgggagct ggggtgaggcc tgnactgcc agctttcccc	780
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ctccattggc ctgggaacta ccccccatc cctcacagta gccgcagcaa gccccgcca	900
aggagactct gagctcagac atgcctaacc ctgccccac ctgatggtct ttctctaccc	960
accctggtag ccgaagacaa aagacataaw ctcttgggag ctctayggcc ccacccatcg	1020
cctgagaaac wgaaataytt aycywggcma mcttagggca agcttrtatc cwccctatac	1080
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tcaccactgc ctgcaacatc ctggctaacc agaggctctg agtctgtcca cgtgayaast	1260
tcactrctak yataaccagc attcgagaaa rccagcacac taagtctatc tacaaccaag	1320
gaatctcaca gagtctaytt cactccccctg ccacctccat cagagctggg gctgggtattc	1380
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ggcaccgagg	aaggtgaana	ccaacttaaa	gaaanttana	atataatata	ggatatgaat	1860
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gaagyacact	tatagaaatg	cgaaatgwc	tggaaagtct	carcaataga	atngaacaag	1980
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<210> 360
 <211> 945
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(945)
 <223> l1pbb_5

<220>
 <221> misc_feature
 <222> (227)..(227)
 <223> n is a, c, g or t

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ttcctttctc	ccctcaccca	ccactgcaga cacagctggg gcttctccca caggaackca 180
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ctgggacagg	agtgwggctg	kgaggtggat mgctttcctg ctggcctggc aggggagctg 420
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gccaccyccg tcaaggctgg gacctctgcc caccattggg tattaaatct acccacctgc	540
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<210> 361
 <211> 527
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(527)
 <223> 13

<220>
 <221> misc_feature
 <222> (498)..(498)
 <223> n is a, c, g or t

<400> 361	
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aggaactggg gatatttagc ctggaaaaga gaatagggga gacttagagg gagacatgat	180
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cagctccaga ggacagaaca aggaccaatg ggtggaagt acagggaggc agatttcagc	300
tcaatataag gaagaacttt ctaacagtca gagctgtcca aaaatggaat gggctgcctt	360
gggaggtagt gagctccctg tcaactggagg tattcaagca gaggctggat gaccacttgg	420
cagggatgtt gtaaagggga tttctgcatt ggatggggga ttggactaga tgacctttaa	480
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<210> 362
 <211> 2750
 <212> DNA
 <213> Homo sapiens

<220>
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<223> line2

<220>

<221> misc_feature

<222> (17)..(17)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (89)..(89)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (116)..(116)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (433)..(433)

<223> n is a, c, g or t

<220>

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<223> n is a, c, g or t

<220>

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<222> (283)..(283)

<223> n is a, c, g or t

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ccwctccttc ancctggcca actcctactc gtccttcagg kctcagctca ratgtcacct 180

cctccaggaa gccttccttg acttcccagg ccgagttagg tgccctcctc tgggcccccc 240

cggctcctacc ctgccactct gggttatmat tgtctgtkng cangtctgtc tccccactg 300

gactgtgagc tccgcgaggg cagggactgt gtctgtcttg ttcaccactg tatccccagc 360

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<210> 364

<211> 1460

<212> DNA

<213> Homo sapiens

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<222> (25)..(25)

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<223> n is a, c, g or t

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<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (113)..(113)

<223> n is a, c, g or t

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<223> n is a, c, g or t

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<223> n is a, c, g or t

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<223> n is a, c, g or t

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<223> n is a, c, g or t

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<223> n is a, c, g or t

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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 <223> n is a, c, g or t

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 <222> (247)..(247)
 <223> n is a, c, g or t

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 atgaaataaa taaatcatca ctatgacatc atccttcagt tttcttactg tgttgcccaa 360
 agtattgcat tatctttcaa gaaggataaa aagaagtctg gagacaccat ctttgtagtc 420
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 aaactcaaga atcgacgagt gaacaatata tttctaagga caaaaaggaa atatggtatt 720
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caggaaaata cggaataaag aatggaatta caattttggg ttataattca aattaaaatt 1320
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<223> n is a, c, g or t

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caggaaacca acyntcaggc ctcycaaawa gtatcaarga actgaaactc accagatcac 180
yrccatccaga caatgagayr ccagaccct catycatcat gattgcctaa ctgaccacct 240
gctkcctggt gaccaactcc tcttccttac ccctccctaa ttcctgtttt cyyacacata 300
gttacatttc ttccctgcta tataaaacccc yaatttttagt yngtcaggga gatggatttg 360
agactgatct cccatctcct cggctgcagc accyrawtaa agccttcttc cttggcaata 420
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<212> DNA
<213> Homo sapiens

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<222> (1)..(491)
 <223> lorli

<400> 366
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 ccaaccgact gagagaggaa gcaccccgac tgtttcagtt tggacactct tggggcttgt 360
 ttgttgctgc agcagttgga ttgcgttttg gtgatttgtt gcgtgtgtgt gtgtgtgtgt 420
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<210> 367
 <211> 498
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(498)
 <223> lsau

<400> 367
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 ggccggcaaa gagagctaga ggtctgctgt ccgccgccag gctctccatg gtggcagctg 180
 ggaggatgca ggggcatggg cgggccggcg acgttgcacg gagacgcaga ggagggtgagt 240
 cactgggggg gtgtcaggcc tggacgctgt gcggggccag tgttttcgcg ggaagagggg 300
 ctccacccag cccaggggag gagcgcattt tcaggggggtt ggtggtgagg ctggggatgg 360
 tgtgctcagg caggggtgtg atggaggaaa ggcaggagag ctctgccctg gtgctcccgc 420
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<210> 368
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 <212> DNA
 <213> Homo sapiens

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 <222> (1)..(785)

<223> ltr1

<220>

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<222> (297)..(297)

<223> n is a, c, g or t

<400> 368

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<210> 369

<211> 609

<212> DNA

<213> Homo sapiens

<220>

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<222> (1)..(609)

<223> ltr10a

<220>

<221> misc_feature

<222> (63)..(63)

<223> n is a, c, g or t

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<221> misc_feature

<222> (113)..(113)

<223> n is a, c, g or t

<400> 369

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cctcccttgt ccagggtgtgc tctcgccatt gctccatctg cgagacgcac ctttctatag	480
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 <211> 510
 <212> DNA
 <213> Homo sapiens

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 <223> ltr10b

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<210> 371
 <211> 586
 <212> DNA
 <213> Homo sapiens

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 <223> ltr10c

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<210> 372
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<212> DNA
<213> Homo sapiens

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<220>
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<222> (1)..(513)
<223> ltr10d

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raaataaagg ctctcgtgcc cctttgttca ggtgtgctct catggcgact ggccaaggag    420
aagcaccctt ctgcgcagaa gtaaaattgc tttgctaaga atcctttgtt cgagtgttca    480
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<210> 373
<211> 684
<212> DNA
<213> Homo sapiens

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<223> ltr11

<400> 373

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tggcctgagg tatgtaattt tgaacttgag cctctctctg ggactgtaaa actccaaatc	180
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agaaaaaaaa aaaagcacac agcatatgca ctggaaagtt tcgcttattc aaaacagtat	360
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gccaaaatgc aaccagaaa aggctaaaaa aactgagag ggagggagaa ataaacgaag	540
caagaggtct ccggaggaag agatgaatga attagcctat taataactcc gtcactgtaa	600
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<210> 374

<211> 877

<212> DNA

<213> Homo sapiens

<220>

<221> repeat_region

<222> (1)..(877)

<223> ltr12

<400> 374

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gtgtctagct cagggtttgt gaatgcacca atcagcactc tgtatctagt taatctggtg	180
gggacttgga gaatctttat gtctagctaa gggattgtga atgcaccaat cggcactctg	240
tatctagctc aagggttgta atggaccaat cagcactcta tgtctagctc agtggttgta	300
aatacaccaa tcgacactct atctagctaa tctagtgggg acgtggagaa cttttgtgtc	360
taactcaggg atgtaaatgc accaatcaga accctgtcaa aatggaccaa tagctctctg	420
taaaacagac tgactttctg taaaatggac caatcagcag gatgtgggtg gggccagata	480
agagaagaaa agcaggctgc ctgagccagc agtggcaacc cgcttgggtc cccttccaca	540
ctgtggaagc tttgttcttt cgctctttgc aataaatctt gctgctgctc actctttggg	600
tccacactgc ctttatgagc tgtaacactc accgcgaagg tctgcagctt catctgaagc	660

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agcgagacac gaaccaccca ggaggaacaa acaactccga tgcgctgcct taagagctgt	720
aacaccgcga ggtctcgagc ttcactcctg agccagcaag accacaaacc caccagaagg	780
aagaaactca ggaaaacagc cgaacatcag aaggaataaa ctctggacac accaccttta	840
agaactgtga cactcgctgc gagcgtctgt ggcttca	877

<210> 375
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 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(1030)
 <223> ltr13

<400> 375	
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tatatctgac tattattaat cattagtttg tagcatcact ctttgttcta ttaccataat	180
gatctctgtt ctattatgat taccttgggg gaaaccaggc cacacagagt taggagctga	240
agggccacag tgagaggtga ccagaagacg agagtgtgag ccttcattca cgcccagaga	300
agggccgctg gagggctcct tggcctagcg gtaatgccag tgcctgggaa ggccctggtt	360
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agaccgggaa aggaatctcc ctctctccag gggagacaga gaacgctccg ctccaccacc	480
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accacagtct tcgatctttc tgataagtgc atagaagaaa cgctgacgtt tgctgtcctc	720
cctctccacc tcggctacca caaagggaaa ggccccctgt ccagtggaca cgtgactcgc	780
gtgacctatc gatcattgga gatgactggc actccttacc ctgccccctt gccttgacta	840
caataaatag cagcgcctcc aggcactcgg ggccactacc tgtctgtctc cgcgctttgg	900
tggcagtggg cccccgggcc cagctgtctt tcttcctatc tctttgtctt ctgtctttat	960
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ggaccctaca	1030

<210> 376
 <211> 548
 <212> DNA
 <213> Homo sapiens

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<220>
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 <222> (1)..(548)
 <223> ltr14

<400> 376
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 gcgagacctg ctctctctta tctgtaaaca ctgtattcaa ggagaaagac cctcctttga 180
 agcattggaa tgtggacaga cgtgcaggct cctagttaag cccactccca ctagctactc 240
 tccgataagt taaagatatg ctgtttgagc acaaaggaga ttcattttaa gcgcttctgc 300
 tgtagattat gcctgtgacg cactgctacc ctttactgt tttgccctga acatctgctt 360
 cttagatcta agttattgta ctcaataaat agtgtggaga ccagagctct gagccttttg 420
 cagcctccat tttgcaattg gccccctggc ctccactctt tatgaactct taacctgtct 480
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 ccccaaca 548

<210> 377
 <211> 344
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(344)
 <223> ltr14a

<400> 377
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 ttgatacact gtttcctttc aacccccaca tcctcaccac ctgtttcttt gtttgagcac 180
 caataaatag cgtgggctcc cagagctcag ggccttcgca gcctccacac tcgcgatggc 240
 cccctgggtcc cactttctct ctcaaactgt ctttttctca ttcctttgac tccgccggac 300
 tttgtcgcgc ccacgacctg gtgttgggtc tgatcacccc aaca 344

<210> 378
 <211> 608
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(608)
 <223> ltr14b

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<400> 378
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 aaaagagtct tggaacatgt ccgggggtcca ggggtctaaaa cccctcgtgg cctttggaac 120
 accaagctct gtgctaaagg gtggaaggct accctgacgc accataatct aagcccaggg 180
 cataaaaccc ctcgtggctt ggatagaatc cagggctcgt ggcctctgga atgtgtctag 240
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 ctgctctcca ttatctcaag tagcagaaca tgttccatat gcctcaaagg aaatgctaaa 360
 ccatcacagc tgtagatcat gcgcttaatg caacttgccc tttcgacccc cacattctca 420
 ccacctgttt ctttgtttga tcaccaataa atagtctggg cttccagagc tcggggcctt 480
 tgcagcctcc atacttagcg ttggccccct ggaccactt tctctctcaa actgtctttt 540
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 cccaaca 608

<210> 379
 <211> 587
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(587)
 <223> ltr14c

<400> 379
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 ccccgagagc ataaccgctc agcggcattc cacaggttgc tcagggagat aacactccct 180
 tgaagcagtg gagtataatc aaacatcttg gctcctcctg aaaccactc ccaccgttt 240
 cagtcccgat aagttaaaga tcttaagtag tttagacaca cgcttttgct caaggaaatt 300
 cacagaaacc gccactgcta cacatcttat cgaatgactc acgagttctc cttcactgat 360
 taatcctttt cctcatccct tcctccccct cccatctgcc ctaagaacaa agagcttgta 420
 aaccaataaa ttgggtggag cccaagagct ctgggccgtg agcaagcctc cgatgctctg 480
 gtcccctgga ccgcctttt aaacgcttat tctgtctctt tctaactcct ttgtctccgc 540
 cggactcggg gtaccactg ggtggtgtgg ggctggtttc cccaaca 587

<210> 380
 <211> 493
 <212> DNA
 <213> Homo sapiens

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<220>
 <221> repeat_region
 <222> (1)..(493)
 <223> ltr15

<400> 380
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 ttttccgtct gtagctagt agccttatct ctccctttcc caggcattgt gaagaccctg 180
 tttctccagc tgtgcagctg catggtcact agacagataa actcaagttg taaaacatgt 240
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 tctcacttct gtagtaagct tccccctgca cagatctccc ctctcacccc atgaaatgct 360
 taaaaggtaa cctgactctt tgttcagggc tcagtccttt ggatgttaat ctgactgggc 420
 tgggtgcacct aaataatama tayatcctcc tcaaccccat cggctctctt gattcctaaa 480
 tcatcccaa aca 493

<210> 381
 <211> 450
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(450)
 <223> ltr16a

<220>
 <221> misc_feature
 <222> (58)..(58)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (124)..(124)
 <223> n is a, c, g or t

<400> 381
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 ctngctgaa gagagccgcc tcgcccaggg tcacgcccc tccccggggc agcccacatc 180
 caatgactgr tcaatrtgga ggtataaagg cccggccctc tcgcccacac tcgggacaac 240
 tctgaagggc catyccagct ccagagctcc ccgtggggtc ggctgaggcc tttgttgca 300
 ctgcattgca gcccaacttc tccctctgcc caatcctgct tccttccctt cccttcaca 360
 ggcgttgatc ccaagggcgc tccctaataa acctcctgca cgctaattct catctcagag 420

30307CNT1.ST25

tctgcttccc ggggaacca acctgcaaca

450

<210> 382
 <211> 457
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(457)
 <223> ltr16a1

<400> 382
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 gccctcagct aataggagtt gcctcacctg ggagggtacc cccaccggg cagcccacag 180
 ccaatagact gactgataca ggggtacaaa agcctagcyc ccttgccctca aggtgggaca 240
 actcactctg tggtgcaatt catgctccag agctcccat gggatcaggc tgaggctaga 300
 cttcagctga aaccacatcc ttgcttagct tcttcccctg ccctatcctg cttccctcac 360
 tcccttaciaa gtttctcctg agagcactcc ctcaataaat cacttgcaaca agaatccctg 420
 tctcaggctc tgcttctagg gaaccaacc taagaca 457

<210> 383
 <211> 387
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(387)
 <223> ltr16c

<220>
 <221> misc_feature
 <222> (41)..(41)
 <223> n is a, c, g or t

<400> 383
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 aatgctgggg agttaacacc ccttggaagc agccctcaac caatgasaga tggggagttg 120
 gtggataaat accccagctt cctcaccct cagkgggata actctgaggt atgtgttcta 180
 cactgtctcc cagagtttcc cagyrggayt gagccccagt tgcccacagt ggtaacttgm 240
 taatatacay tttattggct tccttctctt tcctgtctca cttccccact tccctacyag 300
 tgtttcctgg gatcacctcc caaataaact acttgcactc aaatccttgt ctcagggtct 360

gcttctgggg gaacccaaac taagaca

387

<210> 384
 <211> 464
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(464)
 <223> ltr16d

<220>
 <221> misc_feature
 <222> (182)..(182)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (353)..(353)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (391)..(391)
 <223> n is a, c, g or t

<400> 384
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 cgccccagc tgctgtccyt tggratccac cactgcgttt gcaccaaggc cacgcttccc 120
 tcaggctact cccagccagt gactgagcac ggcaggggtg ctaatgcagg cccgttcctg 180
 snagatgcgg gactcctccg acgggcaact ttggctcgag gactcctcat cagcctgggt 240
 gaaactttct tagaactgca ctgcagtctg aggtctttcc tacccaatcc ttcttccttc 300
 cccctctcct ttcacagggtg tcagacctgc atcatggtcc gaagtctctc ctngcccgtc 360
 cctgctccct ccccttttat ctttcacagg ntttccccta ataaatctct tgcacattta 420
 accctgtctt ggcgtctgct tctcagagga cctgaactaa caca 464

<210> 385
 <211> 780
 <212> DNA
 <213> Homo sapiens

<220>
 <221> rerpeat_region
 <222> (1)..(780)
 <223> ltr17

<400> 385
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30307CNT1.ST25

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aggtgaccgc ttccaccttt aaacacgggg cttgcaactt agctcacacc cgaccaatca 120
ggtagtaaag agagctcact aaaatgctaa ttaggcaaaa acaggaggta aagaaatagc 180
caatcatcta tcgcctgaga gcacagcggg agggacaatg atcgggatat aaaccagggc 240
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cgctcccgat cgggctaaag gcttgccatt gttcctgcac ggctaagtgc ctgggttcgt 540
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ctaatagagc tataacactc accgcatggc ccaagattcc attccttgga atccgtgagg 660
ccaagaaccc caggtcgag aacacgaggc ttgccaccat cttggaagtg gcccgccgcc 720
attttggaag cggcccgcca ccctcttggg agctctggga gcaaggaacc cccggtaaca 780

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<210> 386
<211> 358
<212> DNA
<213> Homo sapiens

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<220>
<221> repeat_region
<222> (1)..(358)
<223> ltr18a

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<220>
<221> misc_feature
<222> (353)..(353)
<223> n is a, c, g or t

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<400> 386
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atgactcagt argtttgag tgcaggygca caacyccack cattatgtaa ccayrycdca 120
tgarrcgcac akgtaatcac ycacrtgagc tcatacttgg ctcggagcca ctattgtctg 180
traaaggtat aactgccctg ctgacgctgt gcacatggct cgcwycacc cagagagaga 240
ataaagccat gtctcaactg cctacgggtc ctcgagtgtt ytttcagcta cccgccacyc 300
atccacccac tcccctcgga cctcagctta ggctggaacc tgacacttgg ctntgaca 358

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<210> 387
<211> 603
<212> DNA
<213> Homo sapiens

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<220>

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<221> repeat_region
 <222> (1)..(603)
 <223> ltr18b

<400> 387
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 aagctcatat tgggctcgga gccactattg tttgagaaag gtataactgc cctgctgacg 180
 ccgtgcacag ggctyktgcg ggcgcgcccc aagaaaagag agagagccag agttgtccat 240
 cttgtagacg gacaaggggg agccagggtc cggctcgctt gccaccaga gaaawgagtt 300
 aagctgctaa ccctgtaagg gagagcctac cttgtaggcc agggaatgca gctgtgtgtg 360
 ggagtggcag gagctgcaga gctggagcag acagccgaga taaaggtaga cagtgtgaga 420
 gagctgctgc gagagagctg ctgatgagag agctagtgtg agtgagctgc tratgaaaga 480
 gctgctgaat aaarccatat tcaactgccta crgycccyg agtggtcttt cagctatttg 540
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 aca 603

<210> 388
 <211> 486
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(486)
 <223> ltr19a

<400> 388
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 caaaaaccgc ctaaattcaa cccaaagggc atcagcctaa tggctaakgt cagcatgacc 120
 ataaaccaca aatgacatct cgcaccagaa acattccaac cctaagataa acccctcccy 180
 raccagagac atgccagccc cgagataacc tcccctccgg ccagagagat gtcagcccca 240
 asataacctc cccttcaacc agagacattc caaccccaca ataaacttct cccccacaca 300
 gaaacattcc aagcctgtga taaagctctc tcaccctaaa acccttaaact actcttagtc 360
 tgtaagagag agtgctcctg actgaaatcg gccagaagcc cctctcaggt ttattctcca 420
 aaataaacct gtctttgact gttgagccgc ttttctgtt tctttcctct ttctttaact 480
 cttaca 486

<210> 389
 <211> 580
 <212> DNA

<213> Homo sapiens

<220>

<221> repeat_region

<222> (1)..(580)

<223> ltr19b

<400> 389

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gcagacagta aaatacagat aagacagctc gggcacagag ggaggtggkr ggaaagtctc	180
ttgggtaact gccaaactty accctcatac aatggggcccc agtaaaayag kgggccttaa	240
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aggcggcggg gggatatgctt gcagctgcak raagatrtat gggarcagac ayacaaytst	360
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tcaccctgaa tccttaaaaa ctcttagtct gtaagagagt gtgcctctga cctaactcgg	480
ccagaagccc ctctcagggtt cgttttctct aaaataaacc tgtctttggt gactgkwgag	540
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<210> 390

<211> 826

<212> DNA

<213> Homo sapiens

<220>

<221> repeat_region

<222> (1)..(826)

<223> ltr1b

<220>

<221> misc_feature

<222> (200)..(201)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (224)..(224)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (245)..(245)

<223> n is a, c, g or t

<220>

<221> misc_feature

<222> (322)..(322)

<223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (336)..(336)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (620)..(622)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (763)..(763)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (770)..(770)
 <223> n is a, c, g or t

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 ccaaaaagtt gccttttggc ccaccacacc ccctatcctg taccatata aaccccaaac 180
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 gagcngcaga atagtgcggc agagaagaga aggaacgtct gaacgccgag aggagttrg 300
 ctrgggrcrg tcagagarga gntcagccgc tggayngcca aactccaggg gaagatcatc 360
 ttcccactcc atcccctttc cagctcccca tccatccac tgagagccac ctccaccact 420
 caataaaacc ccygcattca ccattccttca agtccatgtg tgacccgatt cttctgggat 480
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 gatgctgcca tggggccaga gcccaaaagc actcaccaca gctcctgwc ctgcccgtct 720
 gcatgctccc cctcctgtaa ggggtttgag cgtgtggcga ccnaacagr n gagccacacc 780
 cctgtcrat gtcctgcrag ggggrtcagg gaactctccc atttca 826

<210> 391
 <211> 449
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region

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<222> (1)..(449)
 <223> ltr2

<400> 391
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 aaagaagcag aagtgagatc aatggccaga tggtttagtg ccaagaacca ggcctggtag 120
 ttaaacaatca actcctgacc taaccgcttg tgctatccat agattccaga tattgtatga 180
 ggaagacttg tgaaactttc tgttctgttc tgctagcccc catcactgat gcatgtagct 240
 ctcagtcatg tagccccac ttgcacaatg tatcatgacc ctttcacgtg gaccctcag 300
 agttgtaagc tcttaaaagg gacaggaatc tttacttttg ggagctcgga tcttgagacg 360
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 aggttttgtc tgtgactggt cctgctaca 449

<210> 392
 <211> 512
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(512)
 <223> ltr20

<400> 392
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 tgcacagggg gcttgccar acatkccac agtgaaaaat tttwttcytt aacacatgck 180
 cagtaagaaa aataaatcaa tatggagtag ctcagactra gggccyacaat gcgactgga 240
 aggatggggg ggagccacca ggaattcgca ctttatgcaa atrrggaacc agcctcatca 300
 gcttytstat araagcyctk gtattcaact gtgaagtggc aaccwgmaac ctgctttcag 360
 gaccctctc ttttgctgag agcttttctc ttcttttcgc ttaataaatt ctgctcyacc 420
 tcacccttca atgtgtctgc atgcctaatt cttcctgggtc atgagacaag aacctggaty 480
 tagctgagct aaggagcaaa aaccctgcat ca 512

<210> 393
 <211> 569
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(569)
 <223> ltr20b

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<400> 393
tgagagagga gaaaggaaga aactggtcag gcaggcagtt aggggtgggtc ctcggttgaa      60
ttctttcaaa caaaagaaca gcctgcaggc acagataagg gaacttgcac aggggggctt      120
gcctaagaca tgcccacagc cgcacagata agaaaggcta cacaggagac ttgcccagac      180
atgcccgcaa tggaaaattc cgtcccctga cacatgtgca gtaaggggaa caaagcaata      240
tggagtaact caagctaagg gcccgcagtc gcactaggag gatgggggtg agctaccaga      300
aattcgtgcc ttatgcaaat gagacaccca gccctcatcg gtttcttata aaagcctttg      360
cattcaactg taaaaatggc aaccctcttc cgggccccct ctccgcggcg gagagctttc      420
ttctttcgct tattaaactt tcgctccaac ctacccttt gtgtccatgc tccttaattt      480
tcttggtcgt gagacaaaga actccgggtg atacctcaca aggagagact gagagactgc      540
tacattgtgg tgcattggcg agactaaca      569

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<210> 394
<211> 505
<212> DNA
<213> Homo sapiens

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<220>
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<222> (1)..(505)
<223> ltr21a

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<220>
<221> misc_feature
<222> (257)..(257)
<223> n is a, c, g or t

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<400> 394
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ctctccgcgc tgcccaccct tcccccaagc ctytttacat ttctaagccc ttatctaggc      120
accacggtga agccagcctg atagaagact tyacytatca grccttgctg caataaagca      180
aaccccaatt acaaaccatc cggaccgcac aggggggaggt cgtgggaarc ataaacaaac      240
tttacctaca ccctccngta ccgtaaacgt cacaagggtga tatgtggcar aattaaccag      300
caaacaaccc cgggatgcrq ccatacaaaa gractccctc aaactccctk ccccaatrta      360
aaccctcat tctgtaagct tggggctgct tyccttgact gtkawggggg cagccgrcag      420
gttaataaar gcttgccctga acttggggct ctctctctyt ggtcctttct ctcggctrac      480
cttacattct cactctctaa gttca      505

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<210> 395
<211> 438
<212> DNA

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<213> Homo sapiens

<220>

<221> repeat_region

<222> (1)..(438)

<223> 1tr21b

<400> 395

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cyttgyrctc tccgcacagc taccccaggg caaaaracaa aycccccttc actgayccyt	120
ccagtaactg tscrgacagt tacaggatgc ggtyaacatr tctgttcacc tcgcataaca	180
aagctggcaa aaaaacatct ccaggatgcr gacaagwcac ytgacccyy gactcactca	240
gctcccsac ccyraccag ttctcctgca ccccaactc agtcccgca ccccgacctr	300
gttctggccc tataaaarcc tgctatwgtc tgtaagyrgg kctgcctcct yyaactgtgg	360
trgagcagcc aagcagctca ataaagcttg cttgcctgac tttgggtctc ytcctcctt	420
ctctcggtg accttaca	438

<210> 396

<211> 580

<212> DNA

<213> Homo sapiens

<220>

<221> repeat_region

<222> (1)..(580)

<223> 1tr22

<220>

<221> misc_feature

<222> (431)..(431)

<223> n is a, c, g or t

<400> 396

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aggaaatagh cacaaacctt cttggaaggc ctgaragttt gcawaacttc rgtaatagat	120
htggctgaag gcagccartt cccttacctt wragcattar akcatagggt aaatacwaag	180
gaawatagag gcttccccag ttaagtctgt ttaycctacy tccattaact agcttgttka	240
stcakgtggt cctmttgggg maggtcgacc agggatattg cccstaatag gtatttactt	300
yagaccwggg tgcctragct ttaatcatta ctwgggstac tctcttaacm atgtyaatta	360
cccwcwagtg tgttgactca aagcctttgt yawtwaatct atactraata aatgcctgsa	420
gtgcyagctg nttagggcca gcwgcwgtka caaaccttyc ttggwgtstg taagcggcct	480
ggacactcag ctggactggc aaagcagaat atctgtgtgt cagtgtacrt tttattcatc	540
cgtcatttgg gtcagggtct gcgggtgaca gacccccaca	580

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<210> 397
 <211> 458
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(458)
 <223> ltr22a

<400> 397
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 aggtcagaag gttctgcaga gccccggggg agaataagctg aaggcagctg ttctataacc 120
 ctgaggcaga gggcaaggag taggtacaag ggagtgtagg ggaatttatc ttaaacaggc 180
 ttgtttactt atgttgacca ggaactgacc tttgatcatc cgcgcgcgtg acgttccctg 240
 aaaggggaac aataaatggt aattaccgc aggttgtgtt tgctccaggt ttcggcatt 300
 gtgcctgcac tgaataaaag caagcagctc cagcttctcg gggctgctct ctggccacta 360
 gagccaggca gtcacctagc tgctcttacg ctgcatacct gtgtctgagt actcatttca 420
 tccatcggtc ggccagggtc tgcgggacag acccgga 458

<210> 398
 <211> 492
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(492)
 <223> ltr22b

<220>
 <221> misc_feature
 <222> (234)..(234)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (306)..(306)
 <223> n is a, c, g or t

<400> 398
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 aaccttcttg gaaggccggg aagtttgcac aacttcggta atagatctgg ctgaaggcag 120
 cctaaccct ttacctttag ttaaataaat tagagtagaa acaaaggaat gtagaggagt 180
 ttatctagmt agcttggtta ctcagtgtgt cytaagacta acctttgatc tacngcaggt 240

30307CNT1.ST25

gcttaattgc tttctacttg ggaagtccac aatgtcaatt accctctagt ggtgttgact 300
 caagcntttg tcaattaatc tttactgaat aaatgcgagt ctcaactggct ggtcggcaac 360
 tgtttacagc actctcctgg gagtctgtaa gcggcctgga cmctcagctg gactggcaaa 420
 gcagaatatc tgtgtgtcag tgtactttat tcatccgtca ctgggtcagg gtctgtggga 480
 cagactccca ca 492

<210> 399
 <211> 437
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(437)
 <223> ltr23

<400> 399
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 gggggcaatt gtttgaaggc attttgttcc tgactagctg cctcatccat tatcttcatg 180
 ttcctggaat ttgtgataca aagaacaatg tatagccaat caatagcywa tgttatttta 240
 atgtaaatty ytggtaaaca acttaaggaa ctscctcttc tttttttcct ttaaaaacca 300
 cttgtaactg ctgctaattg gagtgtatat tcagggcaac ttgaatctat gctcccaggt 360
 tgcagtcctc aagcttggcc caaataaact ctctacttat attaattttg cctcagcttt 420
 ttccttttag gttgaca 437

<210> 400
 <211> 490
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(490)
 <223> ltr24

<220>
 <221> misc_feature
 <222> (131)..(131)
 <223> n is a, c, g or t

<400> 400
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 gaggaatgtg gctatgcggc ctgagtcatg tagcatgcag ctgcaacttc tgcttytctg 120
 atttagatta ncttttttcc ttattcctgt actgtaaatr attaggaaga ccaaatggcg 180

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ccagagataa gacccctca gatcactacc cttctcaca gaatgataaa gyaatcttcc 240
 ttggaatgta gcaakctgta accaatcaaa tcgctgtaac atatgcactg gycctgtatg 300
 gaaaatgttg taatcctgct aaaatttctc tgtctctgcc tatataagtg aaaccttaac 360
 ttctccactt tggaacgctg accccattcc tttggagtct gtgtttcctg ggtggccatc 420
 ctcaagcttt gcgctcgaat aaactctata cttaatcata ttttctgaat ctcattatct 480
 aaggttgaca 490

<210> 401
 <211> 576
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(476)
 <223> ltr24b

<220>
 <221> misc_feature
 <222> (7)..(7)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (179)..(179)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (189)..(189)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (487)..(487)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (494)..(494)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (500)..(500)
 <223> n is a, c, g or t

<400> 401
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ccctggagac tgagtcagta gcatgtttgc aattctgttt cttagattat agattaactc	120
tcttcctcat tgttcttggt ctgtaaatga ctaggagaga ccagagacca gacctccnc	180
cagctycnt tccaatcact gatctttggt atagattaac tgcctccttt attgtcctgt	240
acctaactca gaccagatgg tgcaaaagac cccatgactg ttacatcttc agtgtggaat	300
gttaaatata cttttccga aagaaaaaga ccaccttaac taatcagatt gttgtaacta	360
tgcattaagc cttatataga aagatgttga aattctgtta agcttccta aactttgtct	420
atataaatga tcccaaactt ctacacttcg gaacactgac ttccattctt tggaatctgt	480
gyttccnggg tggncatcn tcaaactttg cacttgaata aactctcttt aaactagatt	540
ctgacccttt tgattatattt aggttgacag tgcyta	576

<210> 402
 <211> 794
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(794)
 <223> ltr25

<220>
 <221> misc_feature
 <222> (477)..(477)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (786)..(786)
 <223> n is a, c, g or t

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atcaagctgc aggaccaat aagggaacta gcacaggggg ttgtgcctgg agacatgccc	180
acggctgcac agataggaga acctccagcc cattcagata aaaacttaca caaacctccg	240
gctcactcag ataaagaaac aaggcctgac ataraaatgc ctttgcctt tgtataatca	300
gcgggctccc aggaaaaagt ttcttctcct tttgtgggca tgaacacagt gggctctggt	360
gggttccggt ggacactttc ctttcctttt tttggactgt aagcctggcc tctatgaatc	420
atcacttcag ctcttgattg rtcccgggcc aaggctcctg gccaaactga gtagccnctg	480
tgaatcatca cttcaactyc tgattggtcc caggccaagg tcccgggcca agctgagtca	540
cacgttctcc aagacagccc acagactaaa cacattcctt ccccttccca gtccataaaa	600

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accccagacc ccagcctcat agkggrcaac ccattcgggt cccctctccc gctgrcagag 660
 agctttcttc tttcatttat taaactttca ctccaacctc acctttgtgt ccacgctcct 720
 taattttctt ggaggtrrga caaagaactc tgggtaytat ctcagacaat gagagactgc 780
 tacatnttgg tgca 794

<210> 403
 <211> 603
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(603)
 <223> ltr26

<400> 403
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 aaataaacca agcttgcagc acattcagca ttaatcatka ggtagccttg ctctctgacc 120
 tgcttcctca tagttgtttg gtgcctattg cctyagaatc acgtagaccc tgttacaaga 180
 ttatagttcc ccttaactgc tctatagata acaacttgaa cattatgaaa cgtaagttt 240
 tccctttgag atattccttc gggctctgca taccgatgaa actactgaca actgacgyca 300
 gctgggtctga aggacccac gaggagctga ctaccaaag aatgcagttt ccacatcctg 360
 atgatttcat ccccttacc ccgaccaatc aacaacccca attttcagc cctcgcctt 420
 ccatgatccc cttaaaaacc ccagcccaga actcctcggg gagatggatt tgagggctctc 480
 ctcccatctc ctgcctcagt gccctgcgat cattaaactc tttctctgct gcaaaccctg 540
 ctgtctcagt gtaattggtc tgttactgcg cagtgggcat atgaacctgt tggtcctata 600
 aca 603

<210> 404
 <211> 622
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(622)
 <223> ltr263

<400> 404
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 agcactagat actgaccatt tgcacccca ttgttcctat agataggatt tctgacctta 180

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gaatcatagg tttttgttta agaattgatt tgcaccccca ttgttcctat agacaggatc	240
tctgacctta gaatcataag gcttttgttt aagaattgct taagatgttt ttcagatcct	300
gaattccagc ggaacagctg atgccaacca gtttgaagac cccacagag gaaccgaatc	360
agcatgagaa cgcagtttct tcatctccct gtcccatgac ttcaccctgc actcttcgac	420
caatcaacga tccccacacc tcggcccact ccaaaccctt taaaatccct agccccaac	480
tcctcgggga ggcggatttg aggtttcctc ctgtctcctc attcggctgc cctacgatta	540
ttaaactctt tctctgctgc aaccctggtg tctcgggtgta ttgacttgcc gcgcatcggg	600
caacaaacct attacggtca ca	622

<210> 405
 <211> 636
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(636)
 <223> ltr27

<400> 405	
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accagactga gaacttgtct tcctgttttg tgtgctttcc tctgattgat ccctaccctt	180
cacctatttt atgtatacct accctttcct aattggtttt ctgtactgcc agggccactt	240
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cccattctga gtccataaaa ggccctggac ccagccacat gggggacttt cctgccttca	360
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ttcttctctg tcctcctcac atttcaatgt tcagtgcac ctcattcttc ttggatgtgg	480
gacaagaact tgggaatcag tgcacaagcc agacttggcc tgggaaggcc aactgggcag	540
ggcacctcct gcggcagata gcatgccctg ggcaaggcct ctggcatcgc cagccagaag	600
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<210> 406
 <211> 1020
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(1020)
 <223> ltr28

<220>
 <221> misc_feature
 <222> (356)..(356)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (379)..(379)
 <223> n is a, c, g or t

<400> 406
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 cctcagaccg gaktgagaac ttstcttcct gtttggcgcg ctttcctctg attgatcccc 180
 acccttcacc tattttacat ataccacccc tttcctaatt ggytttttac actgtcttgc 240
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 gcttgacttc atasttggn gaagrattgg gagagagaca acctgacttc agggaagacg 420
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 cttcggggtc gcgggcaycc ytacctgggt gctgccgcat tcccctccag gtgacatgcc 840
 tgggtctggc gcaggccctg cacagagctt gctcctgtgc cgggtgcccga agcagccggc 900
 cagatccgc actcgctcgc tcgctgtctc cctcccga gggggtgagc gbggcgggct 960
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<210> 407
 <211> 619
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(619)
 <223> ltr29

<220>
 <221> misc_feature
 <222> (87)..(87)
 <223> n is a, c, g or t

<220>
 <221> misc_feature
 <222> (89)..(89)
 <223> n i s a, c, g o r t

<220>
 <221> misc_feature
 <222> (107)..(107)
 <223> n i s a, c, g o r t

<220>
 <221> misc_feature
 <222> (199)..(199)
 <223> n i s a, c, g o r t

<400> 407
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 gttcccttat ctgcctaaag tccagacca ccaaggagaa caattgtttt ttgttcccct 180
 ccctgagttt atctcattn g aatctatttc aggaaagaag accaaagaat gtaaccacac 240
 ctgaacagac cttttttcaa gataatgact tttgtcaca aycattgtct ccaaggatca 300
 tttaaattcc aaagagaact atttacaagt taatttctgt tccyysatcc aagatccawt 360
 cattctccct agtaatcatt tattgcccct caatagaatt cctcttctcc cccttcccat 420
 aacctgtttt accaggatcc aagcccccat tctttctgta acctcaagat ggtatataag 480
 cttctgyacc tcattgggaa gttgggtctt cattctgaag gctcccatgt atacacgtta 540
 aataaatttg tatgcctttt ctcctaytaa ttaatctgcc ttttgtcagt tgatttttca 600
 gcaaaccctc agagggccca 619

<210> 408
 <211> 490
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(490)
 <223> ltr2b

<400> 408
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 cccgaaacca ggcctgggccc tgcctggcct aaaccagta gttaaaaatc aactcatgac 180
 ttagaaaccg atgttattca tagattccag acattgtata gaagaacatt gtgaaactcc 240

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ctgccctggtt ctgtttctct ctgaccaccg gtgcatgcag cccctgtcac gtacccccctg	300
cttgctcaaa tcaatcacga ccctttcatg tgaaatcttt agtgttgtga gcccttaaaa	360
gggacagaaa ttgtgcactc ggggagctcg gattttaagg cagtagcttg ccgatgctcc	420
cagctgaata aagcccttcc ttctacaact cggtgtctga gaggttttgt ctgcggctcg	480
tcctgctaca	490

<210> 409
 <211> 429
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(429)
 <223> ltr3

<400> 409 gttggaggcc gaaagaatag ggtcgtgacc aactcagtat accactggag gctatatgag	60
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ccagaaggaa tgctgagggc agtcataccc cacgtgcagt gttccttgtg gttatctata	180
ggaatatctg gaggctgttg tataaagaaa gcaattatgt gagcccgtga taaatcaagc	240
agctgaccaa ccattacctc ttcctccctg ttgattctac ctaataaata caaagggtg	300
tagaagctca gggcccttgt tccctagaag aaaggagccg cctgtctcct tctttaaaac	360
agatcttttt gtctttgtct tcatttctgc atttgttctc ttttgttcag tcccaaaccg	420
acagccata	429

<210> 410
 <211> 722
 <212> DNA
 <213> Homo sapiens

<220>
 <221> repeat_region
 <222> (1)..(722)
 <223> ltr30

<400> 410 tgagaggagg tkccagctgg gcttcctggg tcgagtaggg gctcagaaag ctgtgaaact	60
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cttaaaatat tcctaacayc aggatttgtg catgtgtttt cttccccaag aaagctataa	180
acagcaaaaa ttttgctgta agcttcctg tgccttctc tccctctctc ccttccccct	240
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 <212> DNA
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 <223> 1tr33

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<212> DNA
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<223> n is a, c, g or t

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 <222> (102)..(102)
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<220>

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 <223> n is a, c, g or t

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<220>
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 <223> n is a, c, g or t

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<212> DNA
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agtgcattat cacaacgttg actttgtgtg taagcattgt gcgtgtacgt aaaaacgttg      1140
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cattagtata cctgagtgtt tatgcttgca aaaatatgta tgttattatt gcctatttta      1500
ttgtgtaaag tggcctatga agtggttctgt catgttttta tatgtttctc aaataaatcc      1560
ccttttaaaa atgtaaataa atatctttta aaaaattttt aaattatttt ttccagaatt      1620

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atatttttgg gattttgatc tttcgggatt tcaacattcg ggattatggc gttcgggatt 1680
gtgtcttttcg ggattatgat cggctccc 1708

<210> 427
<211> 351
<212> DNA
<213> Homo sapiens

<220>
<221> repeat_region
<222> (1)..(351)
<223> tigger5_a

<400> 427
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cctaccttaa acatgctcag aacacttaca ttagcctaca gttgggcaaa atcatctaac 180
acaagccta ttttataata aagtgttgaa tatctcatgt aatttaytga atactgtact 240
gaaagtrara aacagtatgg ttgtatgggt acttgaagta cggtttctac tgaatgtgta 300
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<210> 428
<211> 446
<212> DNA
<213> Homo sapiens

<220>
<221> repeat_region
<222> (1)..(446)
<223> tigger5_b

<400> 428
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cctaccttaa acatgctcag aacacttaca ttagcctaca gttgggcaaa atcatctaac 180
acaagccta ttttataata aagtgttgaa tatctcatgt aatttactga ayayartaca 240
ctgtagarta yyggttggtt accctcgtga tcgcgcggct gactgggarc tgcggytcac 300
tgycgctgcc cagcatcgcg acagagtatt gtaccgcata tcgcyagcct gggaaaagat 360
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aaaaatcgta agttggaac catctg 446

<210> 429
<211> 30
<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(30)

<223> oligonucleotide HIRA genomic sequence (positions 853946-853975)

<400> 429

cctacccttt tcccgcccca tttccaaccc

30

<210> 430

<211> 32

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(32)

<223> oligonucleotide HIRA genomic sequence (positions 859116-859085)

<400> 430

tgttcccctc accttcctaa ctcaagtccc tc

32

<210> 431

<211> 33

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(33)

<223> oligonucleotide for HIRA genomic sequence (postions 819901-819933
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<400> 431

ccgtcttttg tcttcacaac caagcccaga gcc

33

<210> 432

<211> 34

<212> DNA

<213> Homo sapiens

<220>

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<222> (1)..(34)

<223> oligonucleotide for HIRA genomic sequence (positions 823592-82355
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<400> 432

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34

<210> 433

<211> 30

<212> DNA

<213> Homo sapiens

<400> 433
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<211> 35
<212> DNA
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<220>
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<223> oligonucleotide from PAC clone containing Necdin gene (positions 72122-72156)

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<220>
<221> misc_feature
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<223> oligonucleotide from PAC clone containing Necdin gene (positions 75666-75637)

<400> 438
cagagccagc ccccacctta agtatggcac 30

<210> 439
<211> 35
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(35)
<223> oligonucleotide from PAC clone containing Necdin gene (Positions 94501-94535)

<400> 439
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<210> 440
<211> 35
<212> DNA
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<220>
<221> misc_feature
<222> (1)..(35)
<223> oligonucleotide from PAC clone containing Necdin gene (positions 98601-98667)

<400> 440
ctttcacacc gtcacccagt cacatacacc aacac 35

<210> 441
<211> 32
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(32)
<223> oligonucleotide from PAC clone containing Necdin gene (Positions
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76608-76639)

<400> 441
gcctggaaat caatgcagcc aactctgtct tc 32

<210> 442
<211> 31
<212> DNA
<213> Homo sapiens

<220>
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<222> (1)..(31)
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<223> oligonucleotide primer for CDC2L1 gene coordinates 13960-13931

<400> 443
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<210> 444
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<212> DNA
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<220>
<221> misc_feature
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<400> 444
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<210> 445
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<212> DNA
<213> Homo sapiens

<220>
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<400> 445
agctgcgact tctgctacgg tgatgccac 30

<210> 446
<211> 33
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(33)
<223> oligonucleotide primer for CDC2L1 gene (positions 17753-17720)

<400> 446
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<210> 447
<211> 69
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: repetitive sequence found in many eutherial genomes. Length of core repeating element is variable and is often polymorphic

<400> 447
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aaaaaaaaa 69

<210> 448
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: repetitive sequence found in many eutherial genomes. Length of core repeating element is variable and is often polymorphic

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<210> 449
<211> 69
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: repetitive sequence found in many eutherial genomes. Length of core repeating element is variable and is often polymorphic

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<400> 449
agagagagag agagagagag agagagagag agagagagag agagagagag 60
agagagaga 69

<210> 450
<211> 69
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: repetitive sequence found in many eutherial genomes. Length of core repeating element is variable and is often polymorphic

<400> 450
acacacacac acacacacac acacacacac acacacacac acacacacac 60
acacacaca 69

<210> 451
<211> 69
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: repetitive sequence found in many eutherial genomes. Length of core repeating element is variable and is often polymorphic

<400> 451
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caacaacaa 69

<210> 452
<211> 69
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: repetitive sequence found in many eutherial genomes. Length of core repeating element is variable and is often polymorphic

<400> 452
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caaacaacaa 69

<210> 453
<211> 69
<212> DNA
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<220>
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<400> 453
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<210> 454
 <211> 69
 <212> DNA
 <213> Artificial Sequence

<220>
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<400> 454
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 ccaccacca 69

<210> 455
 <211> 69
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: repetitive sequence found in many eutherial genomes. Length of core repeating element is variable and is often polymorphic

<400> 455
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 cctacctac 69

<210> 456
 <211> 69
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: repetitive sequence found in many eutherial genomes. Length of core repeating element is variable and is often polymorphic

<400> 456
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 cgcgcgcgcg 69

<210> 457
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: repetitive sequence found in many eutherial genomes. Length of core repeating element is variable and is often polymorphic

ble and is often polymorphic

<400> 457
cgaacgaacg aacgaacgaa cgaacgaacg aacgaacgaa cgaacgaacg aacgaacgaa 60
cgaacgaac 69

<210> 458
<211> 69
<212> DNA
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<220>
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<400> 458
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cggacggac 69

<210> 459
<211> 69
<212> DNA
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<220>
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<400> 459
gaagaagaag aagaagaaga agaagaagaa gaagaagaag aagaagaaga agaagaagaa 60
gaagaagaa 69

<210> 460
<211> 69
<212> DNA
<213> Artificial Sequence

<220>
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<400> 460
gaaagaaaga aagaagaaa gaaagaaaga aagaagaaa gaaagaaaga aagaagaaa 60
gaaagaaag 69

<210> 461
<211> 69
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: repetitive sequence found in
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many eutherial genomes. Length of core repeating element is variable and is often polymorphic

<400> 461
gacagacaga cagacagaca gacagacaga cagacagaca gacagacaga cagacagaca 60
gacagacag 69

<210> 462
<211> 69
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: repetitive sequence found in many eutherial genomes. Length of core repeating element is variable and is often polymorphic

<400> 462
ggaggaggag gaggaggagg aggaggagga ggaggaggag gaggaggagg aggaggagga 60
ggaggagga 69

<210> 463
<211> 69
<212> DNA
<213> Artificial Sequence

<220>
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<400> 463
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gcagcagca 69

<210> 464
<211> 69
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<210> 465
<211> 69
<212> DNA
<213> Artificial Sequence

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<223> Description of Artificial Sequence: repetitive sequence found in many eutherial genomes. Length of core repeating element is variable and is often polymorphic

<400> 465
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gccagccag 69

<210> 466
<211> 69
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<400> 466
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gcccgccg 69

<210> 467
<211> 69
<212> DNA
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<400> 467
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ggaaggaag 69

<210> 468
<211> 69
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ggcaggcag 69

<210> 469
<211> 69
<212> DNA
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<223> Description of Artificial Sequence: repetitive sequence found in many eutherial genomes. Length of core repeating element is variable and is often polymorphic

<400> 469

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gggagggag 69

<210> 470

<211> 69

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: repetitive sequence found in many eutherial genomes. Length of core repeating element is variable and is often polymorphic

<400> 470

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atatatata 69

<210> 471

<211> 69

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: repetitive sequence found in many eutherial genomes. Length of core repeating element is variable and is often polymorphic

<400> 471

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taataataa 69

<210> 472

<211> 69

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: repetitive sequence found in many eutherial genomes. Length of core repeating element is variable and is often polymorphic

<400> 472

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taaataaat 69

<210> 473

<211> 69

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: repetitive sequence found in many eutherial genomes. Length of core repeating element is variable and is often polymorphic

<400> 473

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ctactacta 69

<210> 474

<211> 69

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: repetitive sequence found in many eutherial genomes. Length of core repeating element is variable and is often polymorphic

<400> 474

tacatacata catacataca tacatacata catacataca tacatacata catacataca 60

tacatacat 69

<210> 475

<211> 69

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: repetitive sequence found in many eutherial genomes. Length of core repeating element is variable and is often polymorphic

<400> 475

tagatagata gatagataga tagatagata gatagataga tagatagata gatagataga 60

tagatagat 69

<210> 476

<211> 69

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: repetitive sequence found in many eutherial genomes. Length of core repeating element is variable and is often polymorphic

<400> 476

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tcaatcaat 69

<210> 477

<211> 69

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: repetitive sequence found in many eutherial genomes. Length of core repeating element is variable and is often polymorphic

<400> 477

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tccatccat 69

<210> 478

<211> 69

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: repetitive sequence found in many eutherial genomes. Length of core repeating element is variable and is often polymorphic

<400> 478

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tgaatgaat 69

<210> 479

<211> 69

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: repetitive sequence found in many eutherial genomes. Length of core repeating element is variable and is often polymorphic

<400> 479

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ttaattaat 69